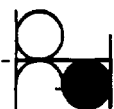


EXHIBIT 10-1

EXHIBITS

THE NEW YORK

A



Printing Research, Inc
10954 Shady Trall
Dallas, TX 75220 USA
214-353-9000

REVISION #2.3.

Date of Demonstration

12.20/21.94

Today's Date Demo Date: 2nd Choice 3rd Choice

12.15.94 12.20/21.94

DEMONSTRATION INFORMATION

(To be completed by Sales Rep when arranging for demo)

CUSTOMER:

Equipment to be Demonstrated

Company: WILLIAMSON PRINTING CORP.

Contact: BILL DAVIS

Attendees: JESSE WILLIAMSON // BILL DAVIS // BOB ENRICK // JIM JOHNSON

Address:

City, State, Zip: DALLAS TX.

Phone: 214.904.2100

Fax: 214.

EZB



PBC



HV



BacVac



AB I



CUV



SB



PURPOSE: Goals and Objectives

What does the customer want to achieve?

APPLY METALLIC FLEXO TYPE INKS INCLUDING PEARLESCENTS, BETWEEN PRINTING UNITS AND OVERPRINT WITH REGULAR INKS ALL IN LINE.

PROCEDURE: To achieve Goals and Objectives

How?

APPLY WATER BASED SLURRIES AND INKS THROUGH THE EZB AT THE BLANKET POSITION PRIMARILY, AND EVENTUALLY FROM THE PLATE POSITION TO COMPARE. *SEE OVER.

EQUIPMENT AND MATERIALS:

All demonstrations are performed on the Heidelberg 102ZP.

Materials

PRI Supplied

Customer Supplied

Manufacturer/
Product Type

Film:



Plates:

Litho



Relief



Coating: /INK.

Aqueous



UV



Other (Explain)



Ink:

Litho



UV



Dampening Solution:



Substrate:



Size:

Weight:

See reverse side for results of demonstration and additional comments.

Distribution:

☐ Front Desk Calendar
☐ JB ☐ ES
☐ TB ☐ DD

☐ Sales Person
☐ SG ☐ AB
☐ MB ☐ LN

☐ WB

CONFIDENTIAL

PRI 00699

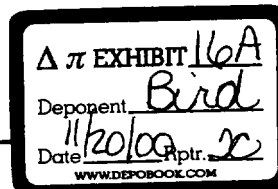
Sales Person

S. BAKER.

C:DCN1000/DEMONSTR

3A

SEE OVER



REXHAM PLATES TO BE USED / CUSTOMER TO SUPPLY RELIEF PLATES FOR BLANKET AND PLATE POSITION.

REXHAM PEARLESCENT / NPC - SLURRY, GOLD, SILVER, WHITE.

Results and Comments:

1. We to print/coat white, silver and gold from the blanket position on various stock colors 10 of each. Using Rexham plate.

2. We to print/coat slurry on white stock from the blanket position. *

3. We to print/coat silver, gold, white from the blanket position using WPC supplied Cyrel 45thou and Dupont Polymer 67thou on various stock colors 10 of each.

* 1 x 1 1/2", 1 1/2 x 1 1/2", 1" x 2" and 2" x 2". To be cut from EZ-Lac WR. GRACE 2 or 3 rectangles of each size. *

4. We to print/coat white from the plate position using WPC Cyrel 25thou on various stock colors.

1. Printed Gold on colored stock and white using Cyrel 45thou. 12.20.94
On colored stock (black) front edge skyped. Opacity good.

2. Printed Gold on colored stock and white using Dupont Polymer 67thou front edge improved, if enough coating we could see edge probably would be resolved.

3. Printed White, dried up on anilox 250 retarded with glycol. Single hit marginal we to run with coarser anilox.

1. We to print with banded 125/140/200/250 12.21.94
white on colored stock. Upon selection of optimum anilox we will then run white and silver with 67thou image plate on colored stock. Same plate run white with optimum roller.

2. Special Plates Slurry or white. CONFIDENTIAL

PRI 00700

C:\DCN1000\DEMONSTR

[illegible]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of:

BILL L. DAVIS and JESSE S. WILLIAMSON

For Reissue of U. S. Patent 5,630,363
Issued May 20, 1997
Serial No. 08/515,097

Filing Date: May 20, 1999

Serial No.: 09/315,796

For: **COMBINED LITHOGRAPHIC/
FLEXOGRAPHIC PRINTING
APPARATUS AND PROCESS**

Group Art Unit: 2854

Examiner: S. Funk
J. Hilten

**REISSUE APPLICANTS FIRST SUBMISSIONS OF DEPOSITION
TESTIMONY AND SUBMISSION OF SUPPLEMENTAL DECLARATIONS**

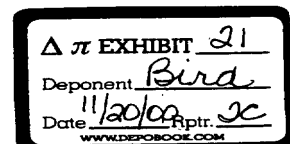
TO: The Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

Reissue Applicants submit the recently-obtained depositions in the pending litigation styled *Printing Research, Inc. and Howard W. DeMoore v. Williamson Printing Corporation, Bill L. Davis and Jesse S. Williamson*, Civ. Action No. 3-99CV1154-M (N.D. Tex. 1999), of Steven Baker (Exhibit 3), Scott Brown (Exhibit 4), Steven Garner (Exhibit 5) and John W. Bird (Exhibit 6), whose declarations were submitted on April 7, 2000 with REISSUE APPLICANTS' MEMORANDUM CONCERNING THE PRIOR ART AND POSITION CONCERNING PATENTABILITY.

Reissue Applicants also submit herewith supplemental declarations of Baker (Exhibit 1) and Bird (Exhibit 2), which conclusively establish that *the date of transmission of information concerning reissue applicants' invention to PRI occurred June 12, 1994, and was immediately passed on to Bird and to Howard W. DeMoore on June 15 or June 16, 1994.*

Reissue Applicants also submit their [litigation Defendants'] Fed. R. Civ. P. 26(a)(2) report of Bernarr R. Pravel (Exhibit 7) and the technical report of a purported expert for PRI, Professor W.S. Mott (Exhibit 8).



I.

**Testimony of Steven Baker,
August 9, 2000 and Corrigendum of September 21, 2000**

Baker stood on his declaration (Baker Dep., p. 69, line 19, and corrigendum), and; that the story given in his declaration was the truth (Baker, Dep., p. 85, lines 1-20, and corrigendum p. 140, line 13).

Baker confirmed that to the best of his knowledge that, none of PRI's employees, including owner or DeMoore, Rendleman or Bird had any part in the invention of the process of the '363 patent undergoing the present reissue, disclosed to him in Atlanta in mid-1994. (Baker Dep., p 152, lines 12-22). He confirmed [see also, the Supplemental Declaration as June 12, 1994, Exhibit 1 hereto] the Atlanta Morton Steakhouse restaurant meeting where he received information concerning reissue applicants' invention directly from Bill Davis and Jesse Williamson. Baker Dep. p. 57, line 20 - p. 61, line 22, esp. p. 60, line 24 - p. 61, line 1; p. 93, line 24, corrigendum; p. 121, line 13, and corrigendum; p. 137, line 11 and p. 147, line 17, and corrigendum. As stated by Baker in his deposition:

"A. I didn't see Howard DeMoore. *The first person I saw was John Bird when I got back.*

Q. Is it your testimony you told the first person you saw?

A. *No, I told the first person that had authority to hear it that I saw.*

Q. That what?

A. I told the first person that I had authority - that had authority over me to hear it.

Q. Were you given a list of people that had a right to this information?

A. Of course not.

Q. Did you - we may have misunderstood each other. *Did you ever tell Howard DeMoore this confidence?*

A. Yes.

Q. When?

A. I don't remember the exact day, but I remember talking to Howard on several occasions about what was going on at Williamson Printing. After all, Williamson was our customer. Howard ran the company. He needed to know."

He testified that at the Atlanta meeting, Davis and Williamson took Baker into their confidence (Baker Dep., p. 62, lines 19-25). Baker confirmed that Jesse Williamson paid for the dinner at the meeting, consistent with paragraph 5 of his original declaration executed November 3, 1999, and Exhibit A of his Supplemental Declaration, Exhibit 1 hereto. See Baker Dep., p. 128, line 12 - p. 129, line 10.

Baker testified that prior to the building by PRI of the device according to Fig. 2 of the '363 patent, "there were probably half a dozen companies that [built] anilox coaters" (Baker Dep., p. 18, lines 12-13). He stated further that "'rack-backs' with anilox rollers had been offered since the late 70's through [his] own personal knowledge." (p. 27, line 10, and corrigendum). Indeed, PRI itself had built a device - the so-called [cartridge, non-retractable] EZ Coater - with an anilox roller (Baker Dep., p. 18, lines 10-12).

Baker testified that when he got back from Atlanta, the first person he talked to was [his supervisor] Bird (Baker Dep., p. 64, line 6) and that he later told DeMoore (Baker Dep., p. 64, line 20). In the Supplemental Declaration, Exhibit 1 hereto, he testifies he told DeMoore "immediately after telling Bird", Baker Supp. Decl., para. 4, as DeMoore "ran the company". Id.

Baker confirmed in ¶10 of his original declaration of reissue applicants' January 1995 disclosure to himself and Bird of PRI that Davis and Williamson were going to file a patent application on their process. Baker Dep., p. 94, line 17 - p. 95, line 12. As testified to by Baker at his deposition:

Q. (By Mr. Harris) What do you say?

A. In response to where it says, Defendants admit that Bill Davis and Jesse Williamson informed Steve Baker and John Bird in January of '95 that WPC was going to file a patent application for '363, I - from this statement, I thought that was understood. That was the *WIMS II* - [corrigendum] patent that we're always talking about and that it was either pending or they were going to file it; but at that point -

•
•
•

Q. (By Mr. Harris) I would like for you to answer the question. The question is: Do you have a recollection of that happening? It's a simple question.

A. I do remember them talking about their patent. Yes. See my testimony in paragraph 10 of my declaration, page 2. The testimony in paragraph 10 is correct.

Q. So what did they say?

A. In exact words, I don't remember.

Q. And when was it?

A. *It would have been January. It would have been after December, so it would have been January of '95.*

Q. (By Mr. Harris) You don't know what they're thinking, I guess, means that you don't know whether they're stating what happened or not, huh?

A. I don't have one opinion on that one way or the other, other than what I've already said. To me it was all the same. A patent was pending or they're going to file another one. *This time on WTMS II* [corrigendum]. It was all the same to me. In '95 - in January of '95, if they told me they were doing that, I am assuming at that point it is the one we have already talked about in '94 and it just had not been filed yet.

Q. (By Mr. Harris) They didn't say the '363 process, did they?

A. They never named them by number because I probably didn't need to know the numbers. *How can they refer to '363 when they haven't filed yet?* [corrigendum]

See also Baker Dep., p. 122, line 13, corrigendum.

Baker testified that it was well-known within PRI that DeMoore put his name on anything invented in the company. (Baker Dep., p. 73, line 11, corrigendum).

Baker testified that as of the time of execution of the declaration he had spent only four hours with undersigned counsel Falk (Baker Dep., p. 22, lines 16-18), and received no compensation for his testimony. *Id.* He testified that he had non animosity toward Howard DeMoore (Baker Dep., p. 40, line 9).

II.

Deposition of Scott Brown Taken

August 10, 2000 and Corrigendum Executed September 22, 2000

Consistent with para. 2 of his declaration executed December 30, 1999 and submitted April 7, 2000, Scott Brown of Heidelberg USA confirmed that Jesse Williamson and Bill Davis told him of their process invention, now embodied in the '363 patent, in mid-1994, as early as the "late spring" of 1994. Note Brown Dep., p. 74, lines 15-24 and corrigendum; p. 76, lines 19-25:

"Q. (By Mr. Harris). Okay. Then I won't look for any additional snakes in there. And does this early September reference assist you in putting a date in when you had this explanation from Jesse and Bill Davis about their intention to improve the existing WIMS process?

A. No. *As my statement says, I believe that [the disclosure to me of reissue applicants' invention] was more in the last spring of '94. And August, more in - we were having conversations about the - what we'll call the LYL Heidelberg machine as early as late spring. And then in - so it's talked about at that time and then also in August, around the time of this letter, this August 5th letter.*" (Emphasis supplied)

Further, Scott Brown confirmed that in mid-1994 Jesse Williamson and Bill Davis told Brown of the trilogy of the types of devices that would perform the '363:

"Q. (By Mr. Harris) Again, whether you read or don't read or whatever you do, tell me, to the best of your ability, how specific you can remember that these gentlemen, Mr. Williamson and Mr. Davis, were in describing the means they would use to practice the process, particularly to the extent that Printing Research might be involved. That's kind of a new question.

A: There were - in the conversations I had, there were - there was equipment being developed confidentially, which was not disclosed - was held from me, wasn't shared with me, other than the statement that they were developing something. And we talked about the fact that several companies have a rack back system, an aftermarket coating system. And that adapting that and being able to move it upstream was the goal. That would - that would complete the process that we had simulated and attested in Germany.

Q: (By Mr. Harris) It is true they also considered a dedicated flexography stations?

A: Yes.

Q: And that they also indicated auxiliary add-on in general, as well as getting a little more specific by talking about some kinds of very generalized equipment?

A: Yes."

See Brown Dep., p. 117, line 5 - p. 118, line 9.

Further, Brown testified that the purpose of the fall 1994 Montreal trip was to gather BASF flexographic plate-making equipment information other than [Bill Davis' and Jesse Williamson's express wishes] for printing with the flexographic plates *in the first unit of a press*. Brown Dep., p. 85, lines 9-19, and corrigendum.

Brown also confirmed the January, 1995 simulations of the process in Germany at Heidelberg and that the reissue applicants, not Heidelberg personnel, were running the tests. Davis Dep., p. 91, line 21 - p. 107, line 13, esp. p. 93, line 9.

Brown indicated that he had no contact concerning his deposition testimony with witnesses Baker and Garner (Brown Decl., p. 24, lines 12-22), and had had only two meetings with attorney Falk prior to executing his declaration. Brown Dep., p. 25, line 14 - p. 27, line 14. He also indicated he had no deposition preparation by reissue applicants' attorneys. Brown Dep., p. 123, lines 2-3.

III.

Deposition of Steve Garner Taken August 11, 2000 and Corrigendum Executed September 21, 2000

Steve Garner, former President of PRI, was a technical person, an engineer, and an inventor in his own right. He had four patents. Garner Dep., p. 18, lines 14-25; p. 20, line 18; p. 60, line 15.

Garner testified that Williamson Printing Corporation originated the '363 process. Garner Dep., p. 124, line 25 to p. 125, line 10, and corrigendum; note also p. 125, lines 11-19.

Garner confirmed that the prototype "short-arm" device built by PRI to operate the WPC process was installed in March 1995 (Garner Dep., p. 87, lines 15-20). The "short-arm" coater started to be constructed in the late fall of 1994 [on the inquiry of reissue applicants learned by Bird from Baker and reissue applicants and passed on to Garner], prior to Williamson's first formal order as an investment approach. Garner Dep., p. 78, line 23 - p. 80, line 7; note p. 121, lines 10-14. The "Rendleman Coater" as it came to be known within PRI, was placed on the second unit of the 2-unit cadet Heidelberg coater at PRI in the first quarter of 1995. Garner Dep., p. 67, line 25 - p. 68, line 2. "Rendleman began designing a long-arm device and switched to the short-arm design when the decision was made on the 'L' coater unit. He returned to the long-arm design after installation of the

[illegible]

Garner confirmed there were, to the best of his knowledge, no e-mails, blueprints or drawings at his employer directed to anything that would practice the '363 fabrication of the device started in December 1994. Rendleman was responsible for the detailed mechanical design of the cantilevered apparatus that was placed on the Williamson press. Garner Dep., p. 30, lines 18-22.

Garner testified that PRI knew of the '363 patent at the end of '97 or early '98. Garner Dep., p. 115, line 11.

Garner said that his declaration of April 6, 2000 was the result of a question and answer session with attorney Falk, and that counsel had not put words in his mouth. Garner Dep., p. 28, lines 11-21. Garner indicated that he had met three times with counsel Falk, and at the last meeting – after he had signed his declaration– Garner was given an opportunity to amend or change his testimony. He did not. Garner Dep., p. 75, line 1 - p. 76, line 23.

**Deposition of John W. Bird Taken
September 12, 2000 (1st Part – No Corrigendum as of This Date)**

Of Bird's several patents, two were U.S. Patent 4,481,903 and 4,939,992. The '903 was for high-velocity ("HV") interstation drying. Bird Dep., p. 18, lines 13-17. U.S. Patent 4,939,992 was directed to a flexographic high velocity air drying system used for drying of flexographic inks at interstation positions or between flexo printing stations." Bird Dep., p. 20, lines 1-4.

When Bird came to PRI, he sold "infrared drying" systems, including the UV drying systems that PRI sells to this date. Bird Dep., p. 25, lines 1-7. Bird was paid royalties on the plate blanket coater he brought to PRI (built for him by Effertz Tools and Machines) and his high velocity, i.e., "HV" hot air dryer technology. The only coater that PRI had when Bird came on board was the end-of-press [failed] EX Coater. Bird Dep., p. 34, lines 3-8.

When Bird arrived at PRI in March 1991, PRI had a non-retractable, end-of-press cartridge coater with an anilox roller. Bird Dep., p. 42, lines 1-5; p. 48, lines 23-25. The EZ Coater, sold in 1992-1993, was commercially unsuccessful, and "couldn't be made to work." Bird Dep., p. 47, line 8; p. 48, line 25.

PRI started development of an end-of-press retractable "rack-back" in 1994, to have an anilox roller. Bird Dep., p. 42, line 9 - p. 43, line 25. This was the so-called "EZB". Id. The "EZB" was not patented. Bird Dep., p. 89, line 25. In fact, as of 1994, Dahlgren, Rapidac, Oxy-Dry and Epic International sold competitive coaters to the "EZB". Bird Dep., p. 46, lines 3-7.

Bird confirmed the testimony in his declaration that his PRI subordinate, Steve Baker, described the '363 process to Bird in mid-1994 after a trip to Atlanta. Bird Dep., p. 58, line 4 - p. 59, line 12. Note, also the deposition testimony of Bird:

"Q. Okay. When did you first learn about the flexographic/lithographic in-line process as in the patent, Exhibit. 6?

A. The process?

Q. Yes, the process.

A. The process was first described to me after a visit of - that occurred somewhere in July of ninety - I'd have to look at my notes - it's July '94, wherein Steve Baker, who was at the time one of our sales people, had gone to Atlanta to demonstrate both UV, and had gone to demonstrate a high-velocity hot air drying system and a Plate/Blanket Coater to both Jesse Williamson and Bill Davis.

When - on Steve's return from Atlanta, Steve was somewhat excited to tell us that Williamson Printing had a patent pending, although that wasn't always clear to me whether it was pending or it was issued.

But certainly he talked of a process wherein WIMS, Williamson Integrated Metallic Systems, had been - certainly had a patent applied for as a process patent, and that Williamson Printing was looking at an improvement on that method of application with metallics, and that they and felt

that the - and this was over a dinner meeting in the evening as sometimes happens in - in situations like this - and that they were looking for someone to work with them to produce a - a coater that would apply flexo, in particular, since they felt that a flexo would be a better way of applying and would give them a more brilliant finish.

And they had previously seen some trials wherein flexo had been applied with metallics that they felt that this, if we were interested - if they could find someone interested enough and since we made coaters, that we might be someone that could work with and/or sell them a piece of equipment to achieve the goal of applying metallics in-line as part of their process and their process patent as part of this improvement that they were looking for."

Baker reported to Bird in mid-to-late 1994. Bird Dep., p. 277, line 24.

Bird stated in his second supplemental deposition, Exhibit 2 hereto, that he was told June 12, 1994 and that DeMoore was told the same day.

Upon Baker's return from Atlanta, Baker had a "fairly protracted" (Bird Dep., p. 61, lines 10-15) conversation with Bird about Davis'-Williamson's desire for a retractable flexographic mechanism (id.; p. 64, lines 9-17), having an anilox roller for the flexographic step and that they would reach a desired resolution:

"A. They talked about the - the need for various types and requirements on those anilox rolls based on the amount and - of color that would be applied - when I say "color," I am referring to metallics - the amount of color that would be applied and - and the amount of resolution that would be required.

There's a - there's a relationship between dot screens that are carried on a flexo plate and the anilox cell counts on a flexo plate. And it's very important that those - those cell counts match the ratios are correct. Otherwise, you can get clogging of your anilox. You can get - you can get - you can create problems for yourself.

So those were situations where Bill and Jesse had become aware, I don't know over what period, but certainly had become aware, of those sorts of issues when you start to pigment flexo applicators. And - and they wanted to make sure that we had at least some understanding of what their requirements were going to be."

Bird Dep., p. 65, lines 5-24. Bird understood from Baker that the '363 process was contemplated by Davis and Williamson to improve the brilliance of the printing of the metallic inks produced by the WIMS prior art process. In subsequent discussion in the fall

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101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

of 1994, reissue applicants indicated to Bird that they desired that the device to practice the process have an anilox roller, which would be accompanied by a chambered doctor. Bird Dep., p. 73, line 11 - p. 80, line 24 and especially, p. 75, lines 7-11; and that one of the goals was the printing of metallic materials for "scratch-and-sniff" coatings.

At PRI, Rendleman was the supervisor of the machine shop. Bird Dep., p. 83, line 14.

The December 1994 test at PRI were requested by Jesse Williamson and Bill Davis. Bird Dep., p. 85, lines 1-11. Bill indicated what he wanted done in the test. Bird Dep., p. 86, line 21. Neither DeMoore or Rendleman organized, prepared, nor directed the December 20-21, 1994 tests. Bird Dep., p. 95, lines 14-25. Another February 1995 test was also directed by Bill Davis. Bird Dep., p. 93, lines 14-24.

Concerning the Rexham tests performed at PRI in late 1994 or early 1995, to the best of Bird's recollection, the work was not overprinted at Rexham. Bird Dep., p. 120, line 9 - p. 121, line 9; p. 123, lines 15-20; p. 234, lines 220-24. Bird summarized the work for John Lapomarde of Rexham as follows:

"Q. Yeah. Well, what - what happened? Insofar as after you found out Lapomarde had this interest, what happened?

A. John showed us - John showed us some coating applications where he was showing us that he was having tremendous streaking problems on his OEM-supplied coating applicator. And he had presented to us that the reason he was looking at flexo and/or a flexo applicator system was to overcome those problems and issues. Because of his experience in gravure and flexo technology, it was his belief that that would overcome this problem.

And he demonstrated the problem to us during one of my visits to him wherein he took a fugitive pigment, a flourescent luminescent pigment, and put the - the product under a - a UV lamp and showed us - low energy UV lamp - and showed us the - where the streaking was occurring on the streets.

He determined and told us that that was his purpose for purchasing - or wanting to purchase, were we interested in such a project?

Once again, we -- I returned to Printing Research. We talk about it as a project because he -- what it turns out is that he has Komori printing machine, and on the end of that Komori printing machine is a -- is a two-roll coating application.

John is basically saying, "I would like you to supply me an anilox roll coater to install on that machine."

We eventually determined that that's a little bit too big of a project for us and -- specifically since one of the -- the plate cylinder and/or the metering cylinder could be converted into an anilox roll, we got John to convert, himself, that roller to an anilox roll.

None of this is at all any knowledge that wouldn't be able to be got from pretty well anywhere at this stage. There are plenty of anilox coaters out there at the end of machines.

And we then got into a contract with him on the basis that he would convert his -- his applicator roll to make it into -- into an applicator to the plate cylinder to an anilox, and we would supply that -- what it became, a product which was the recirculation and sealed doctor blade assembly kit.

That was the birth of that product. And it subsequently turned out after he placed the order that John wanted to run tests, needed to run tests to prove that what he'd done and what he'd put into action at his corporation was -- was valid.

And I might be wrong in the timing of that, but nonetheless, we ran a metallic, we ran a metallic gold, and we ran -- I believe we might even have run a pearlescent at that time. And we ran -- but that's all we ran.

And it was then became clear that -- with John that this was not -- the -- the original description to me was not the same description as that which he purchased the unit -- or was purchasing the unit to perform.

And in fact, he told us that his sole purpose was to apply a metallic at the end of a machine since they were in the business of producing cigarette carton packs. And in the -- in the production of cigarette carton packs, certainly in those days -- they've all gone offshore, of course, today -- but they were printing the colors, and then they were taking those same cigarettes offline, applying the gold, and then either coating or whatever.

John saw this as a way to cut out a printing step, a step in the process. And so that's why I say to you, and I said to you earlier, that the two projects, if you like, are not related because -

Q. Well, you said they had different objectives.

A. They had very different objectives. His objective was to produce a gold at the end of a press as a -- as a Phillip Morris logo, crown, whatever it may be, RJR, whoever. But you know that it was very common for -- a small gold replica of some description would appear on a cigarette carton.

Q. But in any event, it finally occurred because he wanted a test; is that correct?

A. That's when we discovered he wanted to apply metallics, yes.

Q. And you made a test for him at his request?

A. At his behest using his plates, yes.

Q. And it was a successful test?

A. It was a successful test.

Q. Okay. And did you learn anything from it, sir?

A. Yes. We learned that we could apply metallics."

Bird Dep., p. 139, line 7 - p. 142, line 23.

Rendleman started making the "ferris wheel" coater by WPC in December 1994. Bird Dep., p. 225, line 10.

Bird confirmed the facts in paragraph 14 of his declaration of the January 1995 meeting where Davis and Williamson told Baker and Bird of the forthcoming '363 patent application. Bird understood the application to be an improvement process to the WIMS process, and Bird told Garner of Davis and Williamson's intent. Bird Dep., p. 110, line 6 - p. 111, line 16 and p. 112, lines 4-22.

See also Bird Dep. p. 111, lns. 9-16:

Q. Okay. Tell us what was discussed in that meeting with Williamson and Bill Davis in regard to the flexo/litho process.

A. Jesse told us that they - they, Williamson Printing, were applying for a continuation, an extension, on the improvement on their present WIMS process patent, and that was to include flexographic applications.

Bird opined that the '363 process did, in fact, improve the brilliance of the prior art WIMS process. Bird Dep., p. 152, lines 4-10.

Bird opined the RD Marathon brochure was "irrelevant". Bird Dep., p. 168, line 24; p. 172, lines 7-9.

Concerning Serial No. 08/435,798 on the so-called "Rendleman coater" filed May 4, 1995, Bird indicated he was not a "co-inventor" and that he was coerced into signing. Bird Dep., p. 176, lines 19-24. He told Rendleman, at that time, he was not an inventor. Bird Dep., p. 196, lines 24 - p. 197, line 5.

Prior to his deposition, he met with Defendants' counsel Falk and Pinkerton for 22 hours. Bird Dep., p. 191, lines 16-18.

In Bird's opinion, none of Bird, DeMoore or Rendleman had anything to do with the inventorship of the '363 process:

Q. I want to switch to some of the claims that are being asserted in this lawsuit by the Plaintiffs, Mr. Bird.

There is a claim that is made in this case that Mr. Howard DeMoore, who is here in the room, one of the Plaintiffs, is the sole inventor of the flexographic/lithographic process as in the 363 Patent, okay?

Based on everything that you know and all of your knowledge from your work at PRI, do you know of any facts or information at all that would support that claim?

A. None.

Q. There is also an allegation in this case that Mr. DeMoore -- if he's not a sole inventor, they've got a fallback position, that is, well, he's a joint inventor of the flexo/litho process.

Do you know of any facts documents, information, based on your knowledge and experience and the work there at PRI that would support the claim that Mr. DeMoore is a joint inventor of the flexo/litho process?

A. None.

Q. (BY MR. PINKERTON) Mr. Bird, if the flexo/litho process had been invented either solely or jointly by Mr. DeMoore or Mr. Rendleman, would you have known about that when you were at PRI?

A. Yes.

Q. (BY MR. PINKERTON) Did -- at any time when you were employed at PRI, either as a consultant or an employee, did anyone advise you that Mr. Bird [sic] or Mr. Rendleman had invented the flexo/litho process?

A. No."

Bird Dep., p. 112, line 23 - p. 115, line 24.

V.

Tab 7 and Tab 8 are directed to recently filed expert reports in the litigation. Tab 7 is a report by patent expert Bernarr Roe Pravel, one of the nation's leading experts in patent law, on the issues of derivation and equitable estoppel. Expert Pravel concludes:

"Derivation can be shown by a communication of a complete or partial concept to the party charged with derivation. Showing a prior, complete conception and communication thereof is not the only way to establish derivation. The burden of proof is on the party asserting derivation. That burden is independent of the senior or junior status of the parties. *Id. Hedgewick v. Akers*, 497 F.2d 905, 908, n. 4 (C.C.P.A. 1974). It is well settled law that once proved, transmission of an inventor's own prior work will not anticipate his later invention unless that prior work is such to constitute a statutory bar. *In re Costello*, 717 F.2d 1346, 219 U.S.P.Q. 389 (Fed. Cir. 1983); note also Chisum, 1 PATENTS § 3.08[2] (5/88). The burden is on the party asserting derivation by a preponderance of the evidence.

"The evidence clearly shows that as of June, 1994, the '363 patentees were in possession of a comprehensive concept, if not a complete conception of the later-claimed '363 invention. The '363 patentees testified to as much. The '363 patentees chose to explore the possibilities of reducing to practice their concept either by use of a dedicated station - to be manufactured by Heidelberg, selling them a number of new processes - or by a modification of a prior art auxiliary "rack back" having an anilox roller and a chambered doctor.

"That concept was communicated by the '363 patentees to Steve Baker in Atlanta in a restaurant on June 12, 1994, with the intent to induce Baker to explore the possibilities of his company manufacturing such a modified

1. The first group of data shows the results of the first round of the election. The second group shows the results of the second round. The third group shows the results of the third round. The fourth group shows the results of the fourth round. The fifth group shows the results of the fifth round. The sixth group shows the results of the sixth round. The seventh group shows the results of the seventh round. The eighth group shows the results of the eighth round. The ninth group shows the results of the ninth round. The tenth group shows the results of the tenth round.

"The '363 patentees communicated to PRI employees Bird and Baker in January, 1995 that they would file an application on what they considered to be their new, improved process. Bird testified that he considered the process to be that of the '363 patentees and made no objection.

"Despite Garner's testimony, DeMoore and PRI indicated in their COMPLAINT that they did not know about the '363 patent until December, 1998 and learned about it only through a potential customer. This contention lacks any credibility whatsoever, given DeMoore's intense interest in patents, his interest in a device to practice the '363 process, his financial interest in the equipment to practice the process, and his financial losses alleged in his Complaint. I have had many small to medium-size clients who were manufacturing mechanical devices, and periodic review of the patent literature for competitive patents is commonplace. DeMoore's allegation of learning about the issuance of the '363 patent in December, 1998 is unbelievable.

"Regardless, PRI's delay in pursuing any claim to the '363 invention or filing suit - of over four years - was unreasonable. MCV, *supra*. The first element of the Hottel test has been met.

"Defendant WPC's only hope of realizing significant income from the '363 process - other than selling printed materials made according to the process - is by licensing the '363 process to others. As long as an inventorship fight hangs as a cloud over the '363 patent, licensing possibilities are remote, if not impossible. The second element of Hottel has clearly been not.

"PRI, having been told of the forthcoming filing of the application for the '363 process in January, 1995 and having done nothing in 1995, 1996, 1997 or 1998 to copy the '363 claims, while at the same time continuing to do business with Defendants during that time period, including, but not limited to, the construction and delivery of interstation coaters and driers in 1995-1997, induced Defendants into reasonably believing PRI would not assert any claims of the '363 process. The third element of Hottel has been met.

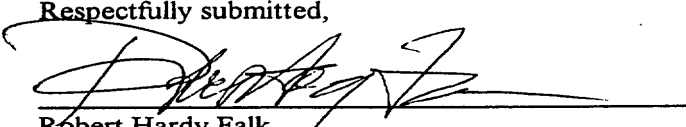
"Defendants acted to their detriment in relying on Plaintiffs' acquiescence concerning their failure to claim the '363 process. Defendants could have gone to any one of a number of different "rack-back" manufacturers to develop an alternative "rack-back" in 1995-1998, which manufacturers were identified in the Garner and Bird depositions. Instead, the declaration and deposition testimony shows that Printing Research installed at least three interstation machines in the period 1995-1997, that Williamson paid for the machines manufactured for them at their request to perform the '363 process, and proceeded to try to work out their difficulties with Printing Research. The fourth and final element of Hottel has therefore been met. The letters attached to the Rule 57(b) declaration of '363 patentees indicated that PRI did not object to the identity of the '363 patentees as solely consisting of Williamson Printing Corporation employees Davis and Williamson until March, 1999 during license negotiations. After prosecuting Serial No. 08/435,798 for four years without claiming the '363 process, and after being told before they filed their application by Davis and Williamson that the latter would file an application on that process, plaintiffs are estopped to pursue claims of inventorship of the '363 process. MCV."

Tab 8 is a technical report by a purported printing expert of Plaintiff DeMoore. He states Serial No. 08/435,798 is enabling.

Conclusion

The depositions of Baker, Brown, Garner and Bird confirm the thrust of their declaration testimonies submitted to the PTO April 7, 2000. Based on that testimony, expert Pravel has indicated that a case of derivation exists against Protestor is estopped to deny inventorship of the '363 patent in Davis and Williamson.

Respectfully submitted,



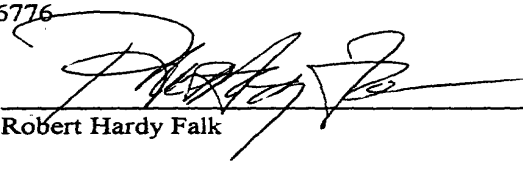
Robert Hardy Falk
Reg. No. 27,877

FALK & FISH, L.L.P.
P.O. Box 794748
Dallas, Texas 75397
Telephone: (214) 954-4480
Facsimile: (214) 969-5941

CERTIFICATE OF SERVICE

This is to certify that the foregoing Réissue Applicants First Submissions of Deposition Testimony and Submission of Supplemental Declarations was served on '363 Protectors' and '713 Patentees' counsel of record by placing a true and correct copy in the United States Mail, postage prepaid, on the 13TH day of October, 2000, addressed as follows:

William D. Harris, Jr., Esq.
Locke Liddell & Sapp LLP
2200 Ross Avenue, Suite 2200
Dallas, Texas 75201-6776


Robert Hardy Falk

FILED OCT 13 2000

3 I note from a calendar, Exhibit "B", that June 12, 1994 was a Sunday

4 The restaurant receipt and the calendar further refresh my recollection of the circumstances, including the date and place of the Atlanta meeting, that I testified about in paragraph 10 of my original declaration signed June 11, 1999. I recall Baker coming into my office upon his return to Dallas several days after the Sunday meeting, in which the disclosure made to him by Jesse and Bill was passed on to me, the substance of which is discussed in paragraph 10 of my original declaration. Baker, I recall, returned on the following Wednesday the 15th, possibly Tuesday the 14th. Baker came into my office - I recall it was in the morning - the day following his return, and was quite enthusiastic about an additional sales opportunity PRI had - interstation retractable coater equipment with an anilox roller in accordance with Davis-Williamson's suggestions

5 I recall telling Howard DeMoore about the successful Baker trip and the disclosure by Davis and Williamson to Baker of an "up front" retractable coater with an anilox roller immediately after the conversation with Baker. It is incomprehensible to me as PRI's Product Manager at that time that telling DeMoore - Chief Executive and owner of PRI - would not have occurred the very same day I was told by Baker of the Davis-Williamson concept of going "up front" with a flexographic station, and that one of the alternatives indicated by Davis-Williamson to Baker was performing their contemplated process with a modified "rack-back" having an anilox roller and chambered doctor. I recall a discussion with DeMoore about this in my office. Looking at the 1994 calendar, that would have occurred, to the best of my recollection, ~~either the morning of June 15th or June 16th~~ the morning of June 15th.

The undersigned Declarant stated further that all statements made herein of Declarant's own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.


John W. Bird

October 5, 2000
Date

6-12-94 → 6-18-94

MARRIOTT INTERSTATE N HTL
ATLANTA GA

00108262

5/28	6/08	SS6W94KJ	GOLDEN CORRAL
6/05	6/08	1028L18S	CALL HOME AMERICA
6/07	6/12	N3CZ2BPQ	STONE MOUNTAIN
			15 INWOOD

ATHENS TX
BINGHAM FARMS MI
STONE MOUNTAIN GA
DALLAS TX
DALLAS TX

MARRIOTT INTERSTATE N HTL
ATLANTA GA

00108265

Reference
Number

04800992

Charges and
Other Debits

Payments
and Credits

BUDGET RENT A CAR
EAST POINT GA

ITEM 013
MORTONS/BUCKHEAD ATLANTA GA

Cardmember Account No.	Date of Charge 05/12/94	Reference Code 000094924	Approval Code 27
Service Establishment and Location MORTONS/BUCKHEAD ATLANTA GA			
Nature of Charge FOOD AND BEVERAGE T/P			
S/P			
TOTAL CHARGE AMOUNT			

6/12

Exhibit "A"

WCC2705

ents
redits

CONTINUED FROM PREVIOUS PAGE

06-11-94 AMERICAN AIRLINES 16200104
DAL/FT WRTH TX
DALLAS/FT. WORTH TO ATLANTA
TICKET #0012179123187

06-11-94 AMERICAN AIRLINES 16200104
ATLANTA GA
ATLANTA TO DALLAS/FT. WORTH
TICKET #0012179123190

06-11-94 AMERICAN AIRLINES 16200104
ATLANTA GA
ATLANTA TO DALLAS/FT. WORTH
TICKET #0012179123191

06-14-94 MARRIOTT INTERSTATE N.H.T.L. 00108262
ATLANTA GA

06-14-94 MARRIOTT INTERSTATE N.H.T.L. 00108265
ATLANTA GA

TOTAL FOR CARD: 3855 530862 0037

Previous Balance	- Payments	- Credits	= Past Due Balance
Late Fees	+ New Charges	+ Other Debits	= Diners Club Balance Due

Atlanta 1/10/94

Bill D.

CUSTOMER COPY

ESTABLISHMENT NAME

MORTON'S
ATLANTA, GA
410108781500000 01

DATE	APPROVAL CODE
JUN 12, 94	27

CUSTOMER NAME
JS WILLIAMSON
371381322136008
AMEX 96/11

TRANSACTION TYPE
SALE COMP. 0002

RECORD OF CHARGE #	TERMINAL #
094924	50012634

DESCRIPTION OF PURCHASES/SERVICES	
FOOD AND BEVERAGE	
BASE AMOUNT	\$154.07

BASE AMOUNT \$154.07

BASE AMOUNT \$154.07

TIP AMOUNT 25.00

TIP AMOUNT 25.00

TOTAL 174.67

TOTAL 114.67

CUSTOMER SIGN HERE

Cardholder acknowledges receipt of goods and/or services in the amount of the total shown hereon and agrees to perform the obligations set forth in the Cardholder's agreement with the issuer.

Cardholder acknowledges receipt of goods and/or services in the amount of the total shown hereon and agrees to perform the obligations set forth in the Cardholder's agreement with the issuer.

June 1994

		1	2	3	4
					5
6	7	8	9	10	11
					12
13	14	15	16	17	18
					19
20	21	22	23	24	25
					26
27	28	29	30		

Month 6

6 months left

July 1994

July 1994					1	2
						3
4	5	6	7	8		9
						10
11	12	13	14	15		16
						17
18	19	20	21	22		23
						24
25	26	27	28	29		30
						31

Month 7

5 months left

2023年12月23日

23

6/5/94

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
M						
			1	2	3	4
NOON						
PM						
GEC 94						
EVE	5	6	7	8	9	10
AM						11
NOON		HEAD DAY				
PM						
EVE	12	13	14	15	16	17
AM						18
NOON						
PM						
EVE	19	20	21	22	23	24
AM						25
NOON						
PM						
EVE	26	27	28	29	30	
AM						

JUNE 4

NOTES

GEC 94

SOUTHWESTERN GRAPHICS

CORRUGATED 94

EUROPEAN SALE CONF.

8	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

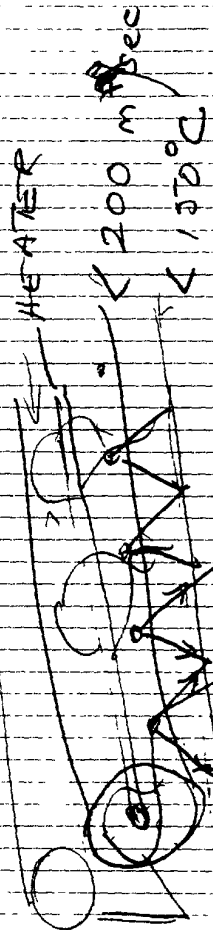
3	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Δ π EXHIBIT 23
Deponent Bird
Date 11/20/00 Rptr. sc
WWW.DEPOBOOK.COM

0925160

NOTES & MEMOS

NOTES & MEMOS



x 17 x 17 x 17 x 17

SUNDAY
JUNE 12, 1994

APPOINTMENTS & SCHEDULED EVENTS

NAME	PLACE	SUBJECT
------	-------	---------

Day 163, 202 Left

SUNDAY
JUNE 12, 1994

30

DIARY AND WORK RECORD

NAME OR PROJECT	DESCRIPTION	TIME
-----------------	-------------	------

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

APPOINTMENTS & SCHEDULED EVENTS

HR	NAME	PLACE	SUBJECT
----	------	-------	---------

AUGUST 29, 1994

Wk 35 • Day 241. 124 Left

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
-----	-----------------	-------------	------

TO BE DONE TODAY (ACTION LIST)

- ① $7 + CT$ - Start up cost, Labor Day
- ② $6 + CT$ - 3 weeks sale
- ③ $6 + CT + D, + CT$ Jan
- ④ $2 \times 8 + CT$ - ~~July~~ June
July -

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

Allente! Rodger Meir

③ as all others plus UV.

$$\text{Exhaust} + \text{STD} \neq \text{IR}$$

45. - Williamson
Bill Davis.

102+L+Y+LX *

triple tower

WEDNESDAY
AUGUST 3, 1994

APPOINTMENTS & SCHEDULED EVENTS

HRS	NAME	PLACE	SUBJECT
-----	------	-------	---------

Phase 2 weeks past 1 week down.
Phase 2. 4-6 weeks out on catwalks
1 week to do.
Sept 14th if start today.

TO BE DONE TODAY (ACTION LIST)

- ① Damage to press needs to be recorded.

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

Wk 31 • Day 215, 150 Left

WEDNESDAY
AUGUST 3, 1994

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
-----	-----------------	-------------	------

8:00			
9:00			
10:00			
11:00			
12:00			
1:30	TRAD - Ray Saxton	denon ref Mike Morgan	
2:30	Susan Seem.	responsibility.	
3:09			
4:00			
5:00			
6:00			

THURSDAY

JANUARY 12, 1995

APPOINTMENTS & SCHEDULED EVENTS

NAME	PLACE	SUBJECT
------	-------	---------

Mark Schommer do we
need to quote Hennegan LTL

B & F

816-257-9929-IND.

816-842-1122-KC.

TO BE DONE TODAY (ACTION LIST)

Mark Schommer

414-425-2843.

(9:25)

TWA FLT 102.

MOBILE MARKS

414-322-0863

EXPENSE & REIMBURSEMENT RECORD:

Item	Where?	Purpose	Who	To whom	Reimbursed?	Amount
What?	Origin?	What?	Involved?	For?	By whom?	

1312-659-7626

Wk 2 • Day 12, 353 Left

THURSDAY

JANUARY 12, 1995

31

DIARY AND WORK RECORD

NAME OR PROJECT	DESCRIPTION
-----------------	-------------

Kansas City.

Burd & Fletcher ^{weekly} 21st

Midland Litho.
Cancelled.

St Louis Litho.

314-352-1300

Russ Kunge
Joe Stein

Very interested wto
match at least 90% of bronze

Chicago.

9:00 Call Frank 301-942-8572

Marketing
Lithoflex
↓

WEDNESDAY
JANUARY 4, 1995

APPOINTMENTS & SCHEDULED EVENTS

HRS	NAME	PLACE	SUBJECT
-----	------	-------	---------

TO BE DONE TODAY (ACTION LIST)

Wk 1 • Day 4, 361 Left

WEDNESDAY
JANUARY 4, 1995

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION
-----	-----------------	-------------

MARKETING
Lithoflex

1:30 AGT. Wayne Fox
Mike Curtis.
Metallic/Pearlescent.
Hartman Steinberg,
Toronto
Dave Deffen
416-438-1622
Metallic.

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

FRIDAY
FEBRUARY 24, 1995

APPOINTMENTS & SCHEDULED EVENTS

NAME	PLACE	SUBJECT
------	-------	---------

Silver Wolstenholme
How much?

Gold



(TION LIST)

Wk 8 • Day 55, 310 Left

FRIDAY
FEBRUARY 24, 1995

28

DIARY AND WORK RECORD

NAME OR PROJECT	DESCRIPTION	TIL
-----------------	-------------	-----

8
9
10
11
12
1
2
3
4
5

Williamson Ptz

Bob Enrick / Bill Davis
Felix Williamson after

Drying on impression 45 min
Nothing showing on densitometer
Wet Trap / Dry Trap / HV Trap
Sownish definite advantage.
Mechanical shutter for edge.

7 color every unit.
Hvon LYL only.

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What Involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

TUESDAY
APRIL 25, 1995

Wk 17 • Day 115, 250 Left

TUESDAY
APRIL 25, 1995

30

APPOINTMENTS & SCHEDULED EVENTS

DIARY AND WORK RECORD

NAME PLACE SUBJECT

HRS

NAME OR PROJECT

DESCRIPTION

TIME

TO BE DONE TODAY (ACTION LIST)

60%
74 on black through
96 in highlights

8
0800

9
0900

10
1000

11
1100

12
1200

1
1300

2
1400

3
1500

4
1600

5
1700

Williamson Ag Co.

Bill Davis / Kim Johnson
Bob Enck.

Casket Oak

24hrs in a day center

Tble to run Friday

Testing Thursday

AmBox reading white?
Gold?

Framing

Water. 23.

EXPENSE & REIMBURSEMENT RECORD:

Item Where? Purpose Who To whom Reimbursed? Amount
What? Duration? What involved? Paid? By whom?

TUESDAY
APRIL 4, 1995

Wk 14 • Day 94, 271 Left

TUESDAY
APRIL 4, 1995

30

APPOINTMENTS & SCHEDULED EVENTS

USURY AND WORK RECORD

HRS	NAME	PLACE	SUBJECT	HRS	NAME OR PROJECT	DESCRIPTION	TIME
-----	------	-------	---------	-----	-----------------	-------------	------

Bob Savageac
Ann Arbor - Michigan
Flint
1-800-331-6916

WILLIAMSON - MD. BOTH.
Dick MARSHAL
Chuck GLASS

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What Involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

TUESDAY
MAY 2, 1995

Wk 18 • Day 122, 243 Left

TUESDAY
MAY 2, 1995

30

APPOINTMENTS & SCHEDULED EVENTS

DIARY AND WORK RECORD

HRS NAME PLACE SUBJECT

HRS NAME OR PROJECT DESCRIPTION TIME

TO BE DONE TODAY (ACTION LIST)

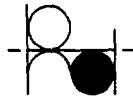
1. L. H. Hooper.
2. Great Western
3. Graphic Arts Weekly / GATF
4. Gross Back.
5. HV 17/11/1995
6. ~~Over on order gold - Bill~~
7. Exclusivity:-
8. Timeline E2's
9. Posters/Post Cards

EXPENSE & REIMBURSEMENT RECORD:

Item Where? Purpose Who To whom Reimbursed? Amount

Pulled job, fit was problem.
excessive team -
pinholing

8:00a	label	
9:00a	Carton	
9:00a	greeting	
10:00a	1st Period N. America	
10:00a	+ AZ, CO.	
11:00a	1st visitation 90 days	
11:00a	to install 1 and 2 yrs	
12:00a		
1:30	Terse W. Chanson.	
1:30	Bill Davis	
2:00	300 Amber take back	
2:00	leafing silver - Obon	
3:00	to WPC	
4:00	UV lamps moved down.	
4:00	PO # 3315 1st down	
5:00	coater E2.	
5:00	UV for 8 color	



Printing Research, Inc.

"Mark-less" Super Blue[®]

John

Hand Carry
S 13

January 25, 1995

Mr. Jesse Williamson
Williamson Printing Corporation
6700 Denton Drive
Dallas TX 75235

214-904-2100 (Phone)

Dear Jesse,

It was a great pleasure speaking with you. We have enclosed product information and the following Super Blue proposal for installation on your:

Heidelberg 102CD+L+Y+L, 6 color, 40 inch press with extension

We propose:

- A Super Blue EZB Blanket Coater for installation at the blanket cylinder.

The benefits to you of installing the Super Blue Coater System are as follows:

- Automatic recirculation system
- Automated wash up procedure
- Consistent overall coating weight
- Sealed doctor blade assembly
- Totally independent of dampening system
- Elimination of lengthy wash up procedures

We look forward to serving your needs and thank you for your interest in our Super Blue range of products. For more information please contact us at 1-800-627-5537.

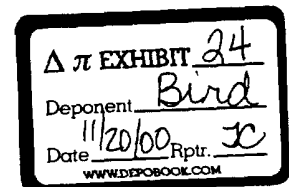
Sincerely yours,

Steve Baker
District Sales Manager

SB:nw

Enclosures: **PI/PRO/DWG**

cc: Bill Davis - Williamson Printing Corporation
John Bird
Steve Garner



CONFIDENTIAL

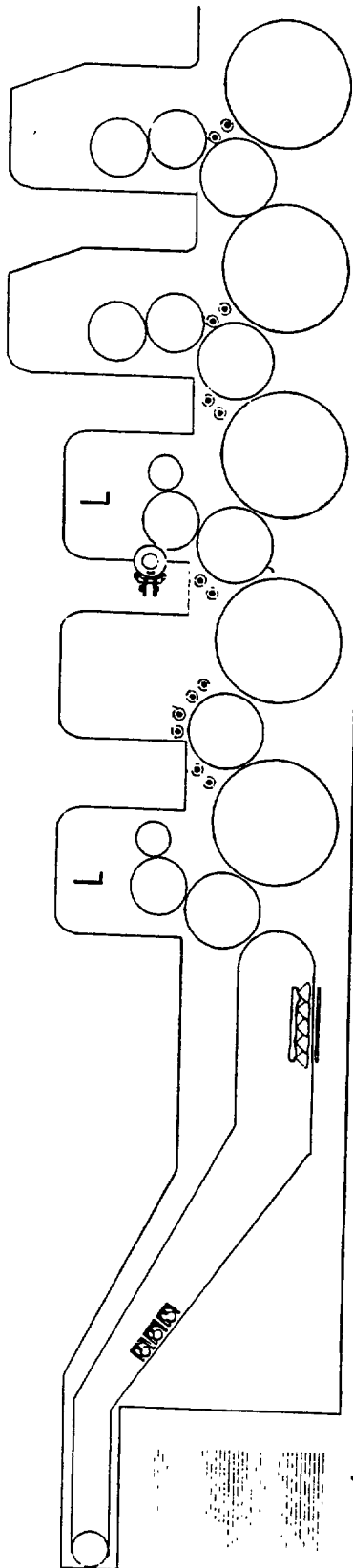
PRI 00680

9/Corra






CONFIDENTIAL

 **Williamson Printing Corporation**
Press No. 3

Heidelberg
Speedmaster CD LYL
with Coating Tower
and Extended Delivery

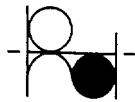


Legend:

-  Super Blue® Wash-Free Anti-Marking Cylinder
-  Super Blue® Air Blanket Infrared Dryer
-  Super Blue® High Velocity Hot Air Dryer
-  Super Blue® 'Cold' Ultra Violet Dryer
-  Super Blue® EZB Blanket Coater

Printing Research, Inc.

CONFIDENTIAL



Printing Research, Inc.
"Mark-less" Super Blue

09525
Williamson Printing Corporation
January 25, 1995

SUMMARY OF PROPOSAL
for
HEIDELBERG 102CD+L+Y+L 6/CT/Y/CT / 40

<u>QTY</u>	<u>EQUIPMENT</u>	<u>PRICE</u>
1	SUPER BLUE EZB BLANKET COATER (EZB)	<u>\$ 54,634.</u>
	TOTAL EQUIPMENT (FOB Factory)	\$ 54,634.

FREIGHT PREPAID AND ADDED TO INVOICE, INSTALLATION AND
TRAINING CHARGED AT \$575. PER DAY PER MAN PLUS AIRFARES

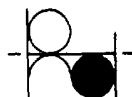
<u>QTY</u>	<u>RECOMMENDED SPARE PARTS</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
1	SPARE LASER ENGRAVED CERAMIC APPLICATOR ROLL ASSEMBLY	3,300.	\$ 3,300.
1	DOCTOR BLADE ASSEMBLY	3,315.	<u>3,315.</u>
	TOTAL RECOMMENDED SPARE PARTS		\$ 6,615.

'Proposal', 'Sales Terms and Conditions' on Reverse Side and 'Terms of Proposal' Accepted by:

NAME _____
TITLE _____
SIGNATURE _____
DATE _____

CONFIDENTIAL

PRI 00682



Printing Research, Inc.

"Mark-less" Super Blue®

EZB 09525

Williamson Printing Corporation

January 25, 1995

**PROPOSAL
for
SUPER BLUE EZB™ BLANKET COATER**

<u>PRESS</u>	<u>COLOR/SIZE</u>	<u>PRICE</u>
HEIDELBERG 102CD+L+Y+L	6/CT/Y/CT / 40	\$ 54,634.

RECOMMENDED SPARE PARTS:

One Spare Laser Engraved Anilox Roll Assembly
One Spare Doctor Blade Assembly

PURPOSE

Application of aqueous or UV coatings to the blanket cylinder of a press unit for overall or pattern coating.

APPLICATION

Paper, Card, Carton Board, Corrugated, Plastic, Foil

CONFIGURATION

Speed control of the Anilox applicator roll is maintained through throttling valves linked to a tachogenerator.

Start/Stop controls are interlocked with press controls to suit. The Anilox applicator roll is laser engraved ceramic. The doctor blade assembly coating chamber is a specially sealed unit with a positive pump drain. Automatic cleaning recirculation system.

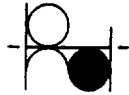
Enclosures: Sales Terms and Conditions
Terms of Proposal

CONFIDENTIAL

PRI 00683

THE GREAT

A



Printing Research, Inc.

"Mark-less" Super Blue

January 25, 1995

Mr. Jesse Williamson
Williamson Printing Corporation
6700 Denton Drive
Dallas TX 75235

214-904-2100 (Phone)

Dear Jesse,

It was a great pleasure speaking with you. We have enclosed product information and the following Super Blue proposal for installation on your:

Heidelberg 102CD+L+Y+L, 6 color, 40 inch press with extension

We propose:

- A Super Blue EZB Blanket Coater for installation at the blanket cylinder.

The benefits to you of installing the Super Blue Coater System are as follows:

- Automatic recirculation system
- Automated wash up procedure
- Consistent overall coating weight
- Sealed doctor blade assembly
- Totally independent of dampening system
- Elimination of lengthy wash up procedures

We look forward to serving your needs and thank you for your interest in our Super Blue range of products. For more information please contact us at 1-800-627-5537.

Sincerely yours,

Steve Baker
District Sales Manager

SB:nw

Enclosures: P1/PRO/DWG

cc: Bill Davis - Williamson Printing Corporation
John Bird
Steve Garner

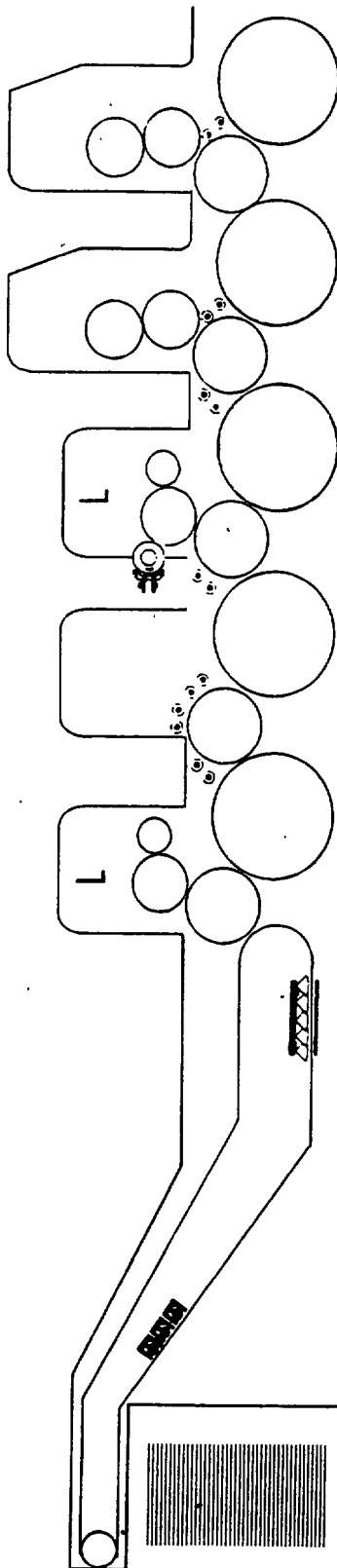


W000401







Williamson Printing Corporation
Press No. 3

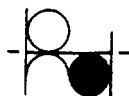
Heidelberg
Speedmaster CD LYL
with Coating Tower
and Extended Delivery



Legend:

- Super Blue® Wash-Free Anti-Marking Cylinder
-  Super Blue® Air Blanket Infrared Dryer
-  Super Blue® High Velocity Hot Air Dryer
-  Super Blue® 'Cold' Ultra Violet Dryer
-  Super Blue® EZB Blanket Coater

Printing Research, Inc.



Printing Research, Inc.
"Mark-less" Super Blue

09525
Williamson Printing Corporation
January 25, 1995

SUMMARY OF PROPOSAL
for
HEIDELBERG 102CD+L+Y+L 6/CT/Y/CT / 40

<u>QTY</u>	<u>EQUIPMENT</u>	<u>PRICE</u>
1	SUPER BLUE EZB BLANKET COATER (EZB)	<u>\$ 54,634.</u>
	TOTAL EQUIPMENT (FOB Factory)	\$ 54,634.

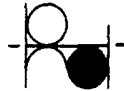
FREIGHT PREPAID AND ADDED TO INVOICE, INSTALLATION AND
TRAINING CHARGED AT \$575. PER DAY PER MAN PLUS AIRFARES

<u>QTY</u>	<u>RECOMMENDED SPARE PARTS</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
1	SPARE LASER ENGRAVED CERAMIC APPLICATOR ROLL ASSEMBLY	3,300.	\$ 3,300.
1	DOCTOR BLADE ASSEMBLY	3,315.	<u>3,315.</u>
	TOTAL RECOMMENDED SPARE PARTS		\$ 6,615.

'Proposal', 'Sales Terms and Conditions' on Reverse Side and 'Terms of Proposal' Accepted by:

NAME _____
TITLE _____
SIGNATURE _____
DATE _____

W000403



Printing Research, Inc.

"Mark-less" Super Blue

EZB 09525

Williamson Printing Corporation

January 25, 1995

**PROPOSAL
for
SUPER BLUE EZB™ BLANKET COATER**

<u>PRESS</u>	<u>COLOR/SIZE</u>	<u>PRICE</u>
HEIDELBERG 102CD+L+Y+L	6/CT/Y/CT / 40	\$ 54,634.

RECOMMENDED SPARE PARTS:

One Spare Laser Engraved Anilox Roll Assembly
One Spare Doctor Blade Assembly

PURPOSE

Application of aqueous or UV coatings to the blanket cylinder of a press unit for overall or pattern coating.

APPLICATION

Paper, Card, Carton Board, Corrugated, Plastic, Foil

CONFIGURATION

Speed control of the Anilox applicator roll is maintained through throttling valves linked to a tachogenerator.

Start/Stop controls are interlocked with press controls to suit. The Anilox applicator roll is laser engraved ceramic. The doctor blade assembly coating chamber is a specially sealed unit with a positive pump drain. Automatic cleaning recirculation system.

Enclosures: Sales Terms and Conditions
Terms of Proposal

W000404

**PRINTING RESEARCH, INC.
TERMS OF PROPOSAL**

1. **PRICING:** Prices are based on clear access to and within the press to install our standard equipment. Any variance, deviation or encumbrance will be subject to price review. Installation is priced separately and all electrical, plumbing, engineering or other contracted services including materials to prepare the site for installation are the customer's responsibility.
2. **TERMS:** 40% with purchase order and signed sales contract. 50% upon notification of readiness for shipment. Please note in order to release shipments, payment must be received. Balance 30 days after installation or 45 days from delivery, whichever is earlier.
Please Note, when payment for a unit is due, it is payable without regard to the status of another unit which might be purchased at the same time.
3. **WARRANTY CONDITIONS:** 12 months on defective parts. **EXCEPTION:** UV Lamps - Guaranteed for 1000 operating hours. If failure occurs prior to 1000 hours of operation and after seller's inspection, proves to be due to manufacturing defects, 100% credit or a free replacement lamp will be provided.
4. **CONDITIONS OF SALE:** This quotation is subject to our "General Terms and Conditions for Coating and Drying Systems" on reverse of Summary. The company accepts no liability whatsoever for any loss of production, loss of profit or other loss to customer in connection with the equipment and/or its installation.
5. **STANDARD DELIVERY:** Is usually 12 - 16 weeks from receipt of official order and first stage payment. FOB Factory.
6. **INSTALLATION AND TRAINING:** \$575.00 per day per man plus airfare. (\$85 per hour if work day exceeds 8 hours).
7. **ELECTRICAL STANDARD:** 220/240, 460/480 volts, 3 or 4 wire (Delta or Wye) 60 hz. Existing electrical services must be specified on the purchase order.

Notes: A. ABI Air Blanket 1 Infrared Dryer BV BacVac Vacuum Transfer System standard electrical supply voltage 220/240 volts.
B. ABII Air Blanket 11 Infrared Dryer standard electrical supply voltage 460/480 volts.

Electrical service other than that quoted above may cause a delay and an additional charge for a transformer.

8. SERVICES TO BE PAID FOR AND PROVIDED BY CUSTOMER:

GENERAL: Buyer agrees to prepare the press for installation, which may require relocating accessories including spray powder units, static bars, etc. Any relocation or modification of accessories will be the sole responsibility of the buyer. In the event Printing Research (P.R.I.) technicians are requested to modify or relocate any accessory, there will be an additional charge assessed to the buyer based on P.R.I.'s applicable hourly rate. P.R.I. will not warranty the performance of any accessories moved. When applicable, the buyer will supply clean, dry compressed air.

IIV/PBC/IR/UV/EZ/BV/VII

The customer agrees to supply and pay for electricians, plumbers, engineering services and all materials required to install and interconnect (if necessary) the equipment being supplied by Printing Research, Inc. The electrical, plumbing, water, compressed air and refrigeration lines being supplied by the customer are to be connected to the equipment being installed. Printing Research, Inc. is responsible for activating the installed systems and will supply the labor necessary in that regard.

9. ADDITIONAL SPECIFIC SERVICES TO BE PROVIDED BY CUSTOMER:

IIV (High Velocity Hot Air Dryer)

- Provide duct work and duct work extraction.
- Provide raised walkplates to cover air supply and return lines lying on the floor.

PBC (Plate Blanket Coater)

- Provide coating and cleaning agent for testing and training.
- 55 gallon barrel of hydraulic oil
- Compressed air line up to 100 p.s.i.
- Lifting gear to place coater on press
- Provide relief plate to conduct plate coating test.

UV (Water Cooled and 'Cold' UV)

- Duct work and extraction, if required
- Clean, dry compressed air adjacent to within 10 feet of the location of lamps; compressor must be able to deliver 0.5 c.f.m. per linear inch per lamp at up to 100 p.s.i.
- The chilling system is not precharged with refrigerant due to the variability of installation requirements and is priced accordingly. The customer agrees to pay for all refrigerant needed to complete the installation.

'COLD' UV

- Provide 25-50 gallons of non-charcoal filtered steam distilled water.

EZ (EZ Impression Cylinder Coater)

- Compressed air line up to 100 p.s.i.
- Provide coating and cleaning agent for testing and training.
- Grippers and gripper bar assemblies need to be cleaned and tuned prior to installation.

W000405

VII (Vent-A-Hood)

- Provide all duct work including penetrating and resealing the ceiling and/or roof and electrical interconnections to other equipment.

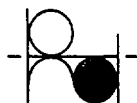
10. LOCAL INSPECTIONS, PERMITS OR CERTIFICATIONS:

- Any additional local inspections, permits or certifications and the costs thereof are the sole responsibility of the buyer.

Prices are firm 60 days from the date of this proposal.

09/30/94

THE UNIVERSITY OF CHICAGO



Printing Research, Inc.
"Mark-less" Super Blue®

John

John DeLeon
2-17-95

February 16, 1995

Mr. Jesse Williamson
Williamson Printing Company
6700 Denton Drive
Dallas, Texas 75235

214-904-2100 (Phone)

Dear Jesse,

Further to our meeting of 2-11-95 we confirm the following:

1. We are producing an experimental EZ interstation flexo printer coater for installation on your Heidelberg Speedmaster CD 6 color + LYL, 40 inch press with a target to be installed and operational date of March 15, 1995. This unit for adaptation to the first coating tower of the LYL.
2. The experimental EZ coater will have a coating face length of 39.5 inches. Production models for the Coater position 'L' will have a coating face length of 40.55 inches and for interstation printing unit positions will have a coating face length of not less than 38 inches.
3. The experimental EZ coater will be supplied at no charge to Williamson Printing Company. We anticipate that this unit will be replaced by a production unit at a later date.
4. We have enclosed updated proposals for Super Blue EZ interstation flexo printer coaters for installation on your Heidelberg Speedmaster CD presses.

We look forward to serving your needs and thank you for your interest in our **Super Blue** range of products. For more information please contact us at 1-800-627-5537.

Sincerely yours,

John Bird

John Bird
Product Manager

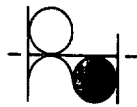
JB:tj

cc: Bill Davis - Williamson Printing Company
Howard DeMoore
Steve Garner
Ed Schaffler
Dave Douglas
Steve Baker



CONFIDENTIAL

PRI 00666



Printing Research, Inc.
"Mark-less" Super Blue

095216
Williamson Printing Company
February 16, 1995

SUMMARY OF PROPOSAL
for
HEIDELBERG SPEEDMASTER CD 6+LYL / 40

<u>QTY</u>	<u>EQUIPMENT</u>	<u>PRICE</u>
1	SUPER BLUE EZ INTERSTATION FLEXO PRINTER COATER (EZI)	<u>\$ 62,084.</u>
	TOTAL EQUIPMENT (FOB Factory)	\$ 62,084.

*** DELIVERED AND INSTALLED**

<u>QTY</u>	<u>RECOMMENDED SPARE PARTS</u>	<u>PRICE</u>
1	SPARE LASER ENGRAVED CERAMIC APPLICATOR ROLL ASSEMBLY	<u>\$ 3,300.</u>
1	DOCTOR BLADE ASSEMBLY	<u>3,315.</u>
	TOTAL RECOMMENDED SPARE PARTS	\$ 6,615.

'Proposal', 'Sales Terms and Conditions' on Reverse Side and 'Terms of Proposal' Accepted by:

NAME _____
TITLE _____
SIGNATURE _____
DATE _____

CONFIDENTIAL

PRI 00667



Printing Research, Inc.

"Mark-less" Super Blue®

EZI 095216

Williamson Printing Company

February 16, 1995

PROPOSAL

for

SUPER BLUE EZ™ INTERSTATION FLEXO PRINTER COATER

<u>PRESS</u>	<u>COLOR/SIZE</u>	<u>PRICE</u>
HEIDELBERG SPEEDMASTER CD	6+LYL / 40	\$ 62,084.

RECOMMENDED SPARE PARTS:

One Spare Laser Engraved Anilox Roll Assembly
One Spare Doctor Blade Assembly

PURPOSE

Application of aqueous or UV coatings to the blanket cylinder of a press unit for overall or pattern coating.

APPLICATION

Paper, Card, Carton Board, Corrugated, Plastic, Foil

CONFIGURATION

Speed control of the Anilox applicator roll is maintained through throttling valves linked to a tachogenerator.

Start/Stop controls are interlocked with press controls to suit. The Anilox applicator roll is laser engraved ceramic. The doctor blade assembly coating chamber is a specially sealed unit with a positive pump drain. Automatic cleaning recirculation system.

Enclosures: Sales Terms and Conditions
Terms of Proposal

CONFIDENTIAL

PRI 00668

**PRINTING RESEARCH, INC.
TERMS OF PROPOSAL**

1. **PRICING:** Prices are based on clear access to and within the press to install our standard equipment. Any variance, deviation or encumbrance will be subject to price review. Installation is priced separately and all electrical, plumbing, engineering or other contract services including materials to prepare the site for installation are the customer's responsibility.
2. **TERMS:** 40% with purchase order and signed sales contract. 50% upon notification of readiness for shipment. Please note in order to release shipments, payment must be received. Balance 30 days after installation or 45 days from delivery, whichever is earlier.
Please Note, when payment for a unit is due, it is payable without regard to the status of another unit which might be purchased at the same time.
3. **WARRANTY CONDITIONS:** 12 months on defective parts. **EXCEPTION:** UV Lamps - Guaranteed for 1000 operating hours. If failure occurs prior to 1000 hours of operation and after seller's inspection, proves to be due to manufacturing defects, 100% credit or a free replacement lamp will be provided.
4. **CONDITIONS OF SALE:** This quotation is subject to our "General Terms and Conditions for Coating and Drying Systems" on reverse of Summary. The company accepts no liability whatsoever for any loss of production, loss of profit or other loss to customer in connection with the equipment and/or its installation.
5. **STANDARD DELIVERY:** Is usually 12 - 16 weeks from receipt of official order and first stage payment. FOB Factory.
6. **INSTALLATION AND TRAINING:** \$575.00 per day per man plus airfare. (\$85 per hour if work day exceeds 8 hours).
7. **ELECTRICAL STANDARD:** 220/240, 460/480 volts, 3 or 4 wire (Delta or Wye) 60 hz. Existing electrical services must be specified on the purchase order.

Notes: A. AB1 Air Blanket 1 Infrared Dryer BV BacVac Vacuum Transfer System standard electrical supply voltage 220/240 volts.

B. AB11 Air Blanket 11 Infrared Dryer standard electrical supply voltage 460/480 volts.

Electrical service other than that quoted above may cause a delay and an additional charge for a transformer.

8. SERVICES TO BE PAID FOR AND PROVIDED BY CUSTOMER:

GENERAL: Buyer agrees to prepare the press for installation, which may require relocating accessories including spray powder units, static bars, etc. Any relocation or modification of accessories will be the sole responsibility of the buyer. In the event Printing Research (P.R.I.) technicians are requested to modify or relocate any accessory, there will be an additional charge assessed to the buyer based on P.R.I.'s applicable hourly rate. P.R.I. will not warranty the performance of any accessories moved. When applicable, the buyer will supply clean, dry compressed air.

IIV/PBC/IR/UV/EZ/BV/VII

The customer agrees to supply and pay for electricians, plumbers, engineering services and all materials required to install and interconnect (if necessary) the equipment being supplied by Printing Research, Inc. The electrical, plumbing, water, compressed air and refrigeration lines being supplied by the customer are to be connected to the equipment being installed. Printing Research, Inc. is responsible for activating the installed systems and will supply the labor necessary in that regard.

9. ADDITIONAL SPECIFIC SERVICES TO BE PROVIDED BY CUSTOMER:

IIV (High Velocity Hot Air Dryer)

- Provide duct work and duct work extraction.
- Provide raised walkplates to cover air supply and return lines lying on the floor.

PBC (Plate Blanket Coater)

- Provide coating and cleaning agent for testing and training.
- 55 gallon barrel of hydraulic oil
- Compressed air line up to 100 p.s.i.
- Lifting gear to place coater on press
- Provide relief plate to conduct plate coating test.

UV (Water Cooled and 'Cold' UV)

- Duct work and extraction, if required
- Clean, dry compressed air adjacent to within 10 feet of the location of lamps; compressor must be able to deliver 0.5 c.f.m. per linear inch per lamp at up to 100 p.s.i.
- The chilling system is not precharged with refrigerant due to the variability of installation requirements and is priced accordingly. The customer agrees to pay for all refrigerant needed to complete the installation.

'COLD' UV

- Provide 25-50 gallons of non-charcoal filtered steam distilled water.

EZ (EZ Impression Cylinder Coater)

- Compressed air line up to 100 p.s.i.
- Provide coating and cleaning agent for testing and training.
- Grippers and gripper bar assemblies need to be cleaned and tuned prior to installation.

VII (Vent-A-Hood)

- Provide all duct work including penetrating and resealing the ceiling and/or roof and electrical interconnections to other equipment.

10. LOCAL INSPECTIONS, PERMITS OR CERTIFICATIONS:

- Any additional local inspections, permits or certifications and the costs thereof are the sole responsibility of the buyer.

Prices are firm 60 days from the date of this proposal.

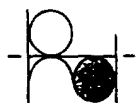
CONFIDENTIAL

PRI 00669

09/30/94

2020年11月26日

26



Printing Research, Inc.
"Mark-less" Super Blue®

mailed 5/12/95

Steve G.
COPY FOR YOUR
INFORMATION

May 12, 1995

Mr. Jerry Williamson
Williamson Printing Corp.
6700 Denton Drive
Dallas TX 75235-4497



Dear Jerry,

It was a great pleasure for Steve Garner and me to meet with you, Jesse Williamson and Bill Davis. The following confirms our discussion:

1. **EZ Interstation Flexo Printer/Coater**

- A. Lithoflex as used by PRI to describe its EZ Printer/Coater process is not in conflict with WPC.
- B. PRI is preparing comment for an upcoming coating article in Graphic Arts Monthly relative to the EZ Printer/Coater family, as well as a presentation for the GATF Sheetfed Conference June 25-27, 1995. Both GAM and GATF would like input from WPC. We are suggesting that they both contact you direct.
- C. An order for one Super Blue EZ Interstation Flexo Printer/Coater (your PO 3315) for installation on the first printing unit of your Heidelberg Speedmaster CD 6+LYL is in hand. We anticipate delivery to be approximately 90 days. The price of the coater is to be negotiated. WPC will continue to use PRI's experimental coater installed on the Heidelberg Speedmaster CD 7+L press until PRI has delivered and installed the EZI.
- D. A separate discussion document addressing exclusivity is attached.

2. **Heidelberg Speedmaster CD 6+LYL (Press #3)**

- A. Gloss readings have been taken of the spot water based primer UV overcoat printing job that had various products (golf club, sports shoe, electrical connectors, etc.). The findings are as follows:
1. Highlight areas -- 97 points (toe of shoe)
 2. Heavy black solids -- 74 points (electrical connectors)
 3. Solid blue -- 84 points (credit card)

We all concluded that this was a classic case of dry back and that we should press forward with the installation of HV on this press to alleviate such dry back problems and also to dry metallic or specialist water based inks in the future.

CONFIDENTIAL

PRI 00649

Mr. Jerry Williamson
Page 2

- B. The UV lamps in the upsweep of the delivery are to be moved to the lower last horizontal aperture in the extended delivery to:
1. Minimize spray powder contamination when running spot UV applications
 2. Minimize the effects of sheet flutter on the cure of UV coatings. This needs to be carried out as soon as is convenient to WPC.
3. **Heidelberg Speedmaster CD 8+L (Press #5)**
- A. This press is to be supplied UV ready for maximum flexibility. All indications up to this point are that the water based flexo metallic, even when thoroughly dry, will be prone to pile and back trap when applied on early units of a press. The application of UV metallic appears to overcome this problem. The installation of UV throughout would enable WPC to print litho, flexo on any unit, assuming EZ Flexo Printer Coaters were installed, on any substrate at maximized press speeds.
- B. PRI is to furnish WPC with a proposal for an 11 lamp 'Cold' UV system for this press.
4. **Web Offset 38 Inch UV Coating System**
- A. PRI is to arrange a visit for WPC to Sheffer's installation of a UV coater on a Heidelberg Harris M1000 in Portland, Tennessee.
- B. PRI is to prepare a proposal for a joint Sheffer/PRI coater package for installation on WPC's newly proposed press.

We look forward to a continued successful partnership.

Sincerely yours,



John Bird
Product Manager

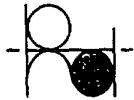
JB:ln

Enclosures:

cc: Jesse Williamson/Williamson Printing Corp.
Bill Davis/Williamson Printing Corp.
Bob Emrick/Williamson Printing Corp.
Steve Garner/PRI
Steve Baker/PRI

CONFIDENTIAL

PRI 00650



Printing Research, Inc.

"Mark-less" Super Blue®

**WPC/PRI PARTNERING AGREEMENT FOR THE SUPER BLUE EZ
INTERSTATION FLEXO PRINTER/COATER**

1. PRI agrees to manufacture and supply one Super Blue EZ Interstation Flexo Printer/Coater (PO #3315) on an exclusive basis.
2. Exclusive is to be interpreted to mean that PRI will not supply to printers in the commercial litho offset printing market for a period and territory to be defined.
3. Exclusions include the litho offset printing markets of folding carton, label, and greeting cards.
 - A. North America, including Mexico and Canada, will be exclusive to WPC for 6 months from the date of delivery of the EZ Interstation Flexo Printer/Coater (PO #3315).
 - B. Texas and its contiguous states (Louisiana, Arkansas, Oklahoma, New Mexico) and including Arizona and Colorado will be exclusive for a further 6 months, equaling 12 months from the date of delivery of the EZ Interstation Flexo Printer/Coater.
4. PRI defines 6 months and 12 months exclusivity 3A and 3B to mean PRI will not accept an order for a Super Blue EZ Interstation Flexo Printer/Coater for installation on a printing unit prior to the last printing unit of a press.
5. PRI may request during the term of this agreement to supply to other commercial printers and WPC may not unreasonably decline.

CONFIDENTIAL

PRI 00651

In-Line Coating Spurs Sheetfed

Flexo, metallics, fluorescents, and double-hits create a new generation of on-press special effects.

There's no respite in customer demand for gloss or matte coatings on multi-color sheetfed printing jobs. Now comes the next generation, a forceful drive by press manufacturers and OEMs to supply printers with new in-line coating technology that's integrated to the specific press line.

It's not enough to just coat a job for protection and high-gloss sheen. Such techniques as flexo-type spot coating in intricate patterns, intermediate ink sealing to allow for immediate coating in-line, and use of water-based metallic dispersion inks and fluorescents are some of the innovations being explored.

At the Drupa '95 exposition in Germany last month, Heidelberg displayed its MCT Multiple Coating Technology. MAN Roland demonstrated its Roland 700 double-coating module, and Printing Research Inc. introduced its Super Blue EZ interstation flexo printer/coater.

In addition, Mitsubishi Lithographic Presses, which has been

offering double coating for the past six years, developed a new in-line, anilox-engraved application roller for metallic inks as well.

Packaging printers have led the way, installing coating units as a standard part of the press. But commercial printers, seeking to entice high-end jobs from designers and ad agencies and enhance their value-added services, are now adding these in-line coating units as well.

Shortened lead times

"We're making the move into this new in-line, double-coating technology primarily because of our shortened lead times," comments Dave Rydell, printing manager for Diamond Packaging, Rochester, N.Y., which installed a new MAN Roland 700 with double coater in May.

He adds, "This press will allow us to almost simultaneously move a job from delivery to feeder and UV coat it all in line. We don't have the time to use off-line coating units and wait for the drying process."

While many consider the coaters to be aimed at a specialty market, their popularity cannot be contained to one certain niche.

"Lots of printers are showing interest in the technology. I had a printer who wanted to install three of our in-line, anilox-engraved application rollers immediately," remarks Randy Siver, Mitsubishi's sheetfed product manager.

Printing Research installed a prototype of its Super Blue EZ unit at a large commercial printer. After testing the printer/coater on its seven-color 40" sheetfed press, the printer placed an order for a production unit to be up and running this fall on the first printing unit of its even newer six-color press.

The Printing Research device is installed directly on one of the printing units for applying aqueous or UV-based metallic, opaque white, fluorescents, or specialized coatings, such as pearlescents, between units for downstream overprinting in a single pass.

"By using our flexo printer/coater, printers can lay down a metallic ink with a flexo unit at the beginning of the press, then take the job down through the press and enhance the image," explains Warren Bird of Printing Research. "The result can be very realistic or very surrealistic, depending on how and where the metallic effects are applied to the image, giving it a lot of walk-by appeal."

Bird reports that the printer/coater is receiving "tremendous reception" from printers of wine labels, greeting cards, fine-art reproductions, and specialty packaging. In conjunction with the unit, Printing Research is mar-

BY DEBORA TOTH

PROJECT EDITOR

keting both its cold UV and HV hot-air interstation and delivery drying systems. Both alleviate the problem normally associated with upfront in-line coating.

While this printer/coater fits at the front end of a press, Heidelberg's Multiple Coating Technology is installed at the back end. MCT provides package, label, and commercial printers with a way to produce high-gloss coatings, metallic finishes, and related special effects, while staying within the bounds of more stringent environmental regulations.

The system, available on new Speedmaster CD models with six or more printing units, consists of a coating tower, drying unit, second coating tower, and extended delivery. A combination of infrared dryers, hot-air knives, and UV curing systems are strategically placed throughout the press line to accommodate various coating materials.

In-line application

The configuration, which is also designated as L-Y-L, allows in-line application of two coatings in one pass. This provides more lustrous results and allows use of a virtually unlimited combination of UV and aqueous coatings, varnishes, and water-based metallic finishes.

Heidelberg's coating system is controlled by CPTronic, the digital press-operating system. The connection allows the press operator to adjust and activate the system's functions from a single console. Utilized is a unique roller configuration that minimizes the number of splits the coating must undergo before reaching the sheet. The result is a thicker, more uniform application by each of the two coating units.

"Multiple Coating Technology involves more than bolting coating towers onto a press," says John Dowey, Heidelberg USA's director of marketing for Speedmaster presses. "This is a bal-

Customer demand for gloss or matte coatings on multicolor sheetfed printing jobs remains high.

anced system of advanced application and drying technologies that provides a single-pass, environmentally friendly solution to a range of coating challenges."

These challenges might include application of a water-based primer over conventional inks, providing a stable base for a UV coating laid down in-line by the second coating unit.

Or the coater could provide more efficient production of water-based blister coatings without need for expensive off-line processing.

A third use is to offer a more dramatic use of spot dull and gloss UV coatings, which can be applied in line to provide dimensional effects and enhance rub resistance on a variety of printed products.

End of bronze age

Finally, the new in-line coater is a productive and less costly replacement for bronzing machines, whose use has become restricted by environmental concerns. The in-line sequence involves printing with conventional inks, use of spot metallic dispersion coating, and sealing with a gloss protective aqueous coating.

The first installation of a Hei-

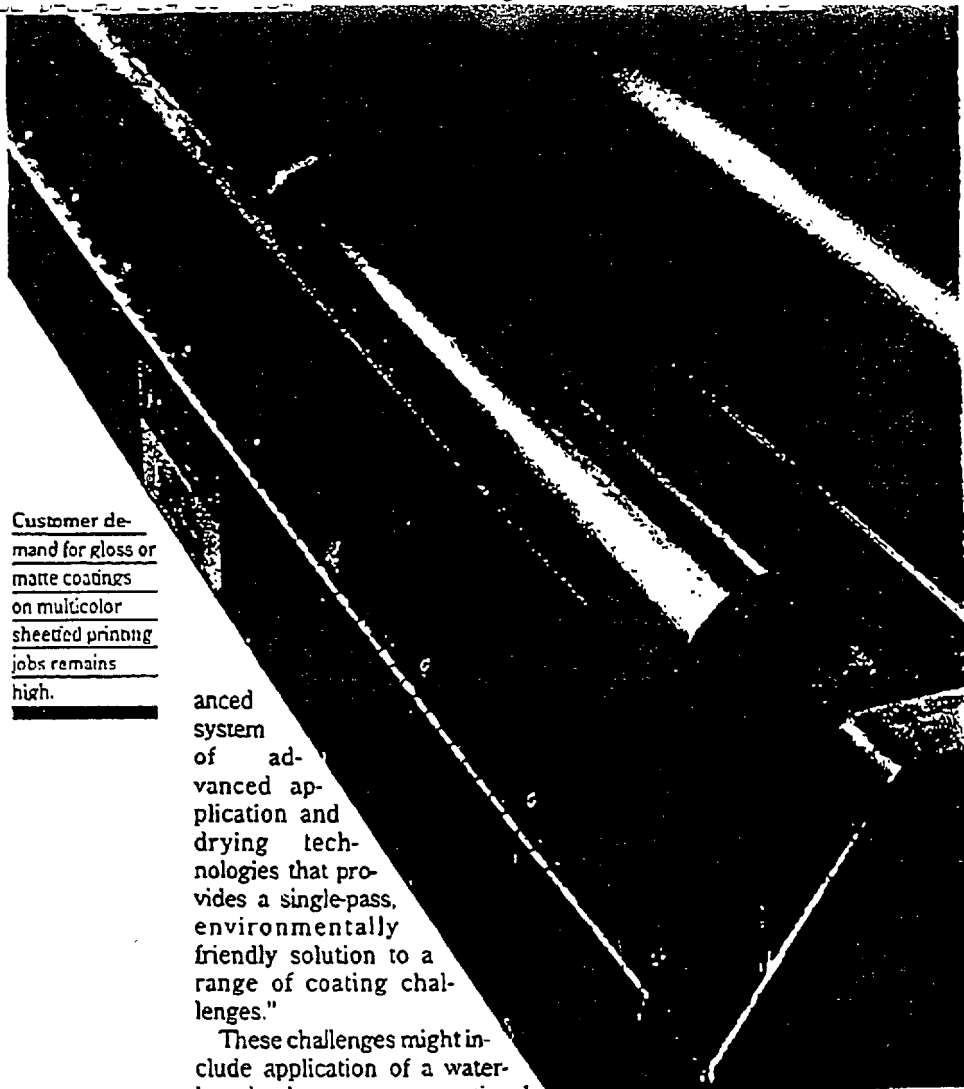
delberg 40" six-color Speedmaster CD equipped with Multiple Coating Technology was HM Graphics, a sheetfed printer in West Allis, Wis. specializing in intricate pop-up pieces, unusual packages and cartons, and special point-of-purchase displays. The press was installed in September 1994.

Jim Sandstrom, president of HM Graphics, says one of the greatest benefits of the new press is its ability to apply UV coating immediately after printing with standard intense bright inks. Until now, special dull inks had to be used when applying UV coating to a printed project. The new press has two drying units that make the process possible, he says.

This spring, Williamson Printing of Dallas took delivery of a six-color Speedmaster CD with MCT option, which joins a six- and a seven-color Speedmaster CD with in-line coating.

"In-line coating not only adds to

Abel Kollonshi



the appearance of our work," says Jesse Williamson, company president. "but its ink-sealing capabilities also allow us to turn jobs around faster. It's another value-added service we can offer our customers. The new Multiple Coating Technology makes it more viable than ever."

At the Drupa show, MAN Roland demonstrated the double-coating option for its model 700 sheetfed press. For the past year, the manufacturer has been presenting seminars across the country to introduce the new process, joined by supplier partners DuPont (plates), Grafix North America (dryers), and Hostmann-Steinberg (Huber inks), who worked with MAN Roland to develop the double-coating system.

The MAN Roland system consists of twin high-tower coaters that let printers apply, in a single pass, high-quality metallic finishes, as well as double coating, such as a water-based primer plus UV blister packaging coats.

Ensures exact measuring

To maximize flexibility, the unit can be installed to operate as a two-roller nip coating system or as a chamber-type ductor blade and anilox roller. The latter option ensures exact metering of the coating, making for greater economy and accuracy in coating thickness, along with more even application and consistency even though the press speed or coating viscosity may fluctuate during the run.

The Grafix drying system speeds setting and drying without heating the substrate. Interstation warm and hot-air knives remove moisture from the sheet as it passes between the coating towers, and cold-air knives prepare it for the second coating.

Finally, an aqueous coating dryer or UV dryer is used on the sheet with cold-air knives to remove heat from the substrate for better control of pile temperatures.

Among the hot on-press trends: metallics, fluorecents, and double-hits.

DuPont entered the double-coating development process by providing a new metal-backed photopolymer flexo plate, the Cyrel CIA coating plate. These plates are designed to replace the expensive and time-consuming process of cutting press blankets on computerized plotters for spot coating.

Cyrel plates, which are plastic relief plates, are imaged photographically by exposure to a negative, followed by processing. The result is a reproduction of the film that can be mounted quickly into register. DuPont has offered to develop a "fingerprint" for each press to determine its exact imaging characteristics and variations.

By working with Hostmann-Steinberg, MAN Roland 700 users with double-coating technology can utilize the firm's new Acrylac acrylic-based metallic inks, which are formulations of gold and silver inks that use large pigment particles for added brilliance and easier application.

Acrylac inks applied in the coater may be able to replace some off-line foiling procedures with in-line metallic ink application.

The first two installations of MAN Roland 700 presses with double-coater system are at Diamond Packaging, Rochester, N.Y., and Royal Paperbox, Los Angeles. Both were scheduled for late May.

"We're hoping that this new press with double coater will open the door into cosmetic and other high-end folding carton work," says Dave Rydell of Diamond

Packaging. "We've been experimenting in the past with in-line aqueous coatings on our presses but they never gave us the high gloss we needed."

Rydell says the first use for the new double coater is to lay down primer and top coat of aqueous coating in line. "Since we didn't have UV coating capabilities before, this coater has an anilox roller that we can utilize to do our clients in-line metallic ink coating for less cost," he says. "The other plan is to do combination coating jobs, such as laying down a matte finish with water-based coating, then spot coating with UV coating."

Replaces bronzing process

In the meantime, Mitsubishi Lithographic Presses, working with a vendor, has developed its own in-line, anilox-engraved application roller, which can be used to replace the bronzing process. The in-line unit is followed by a tower coater and an extended delivery for curing opaque inks.

The unit, built specifically for one customer, is being field tested before being marketed to the industry in general. It should be up and running in the fall.

"Typically, when applying metallics you get no clear definition of the trap line," explains Silver Mitsubishi. "But this process puts a heavy ink film on the substrate, making it a cleaner trap. Printers are looking for a more metallic, glossier, shinier look."

While printers investigate these new in-line coaters, rumors have it that additional manufacturers will be soon introducing new products. Regardless of whether they serve the packaging or commercial markets, printers who choose coating will be able to further enhance and differentiate themselves from the competition.

Coating technology is becoming a fundamental component of the offset printing process.





Williamson Printing Corporation

6700 Denton Drive • Dallas, Texas 75235 • (214) 904-2100

June 12, 1995

Mr. John Bird
Product Manager
Printing Research
10954 Shady Trail
Dallas, TX 75220

Re: Letter of Agreement and Understanding

Dear John:

With respect to the above referenced, enclosed please find my draft responding to your letter dated May 12, 1995, including the "Exclusivity Agreement."

First of all, I do apologize for my belated response, but I have just recently had a chance to visit with our folks to get their input on this transaction.

After receiving their input on what they believe has been agreed upon, I have attempted to present that position in response to your original "first draft."


Please note that I have revised your "Exclusivity Agreement" document somewhat, and it does include "liquidated damages" provision, as well as how we should go about resolving any misunderstanding under the terms of this arrangement.

Speaking on behalf of all of our folks here at WPC, we are very much excited about the opportunities before us, and our establishing a good, long and mutually beneficial business relationship.

Again, please accept my apologies for the delay, and I am looking forward to hearing from you at your earliest convenience.

In the meantime, if you have any questions, please do not hesitate to give me a call.

Very truly yours,


Jerry Williamson
Chairman of the Board

enclosures

cc: Jesse Williamson, WPC
Bill Davis, WPC
Bob Emrick, WPC
Jim Johson, WPC
Steve Garner, PRI
Steve Baker, PRI

CONFIDENTIAL

PRI 00637

Δ π EXHIBIT 28	
Deponent	Bird
Date	11/20/00
www.DEPOSE.COM	



Williamson Printing Corporation

6700 Denton Drive • Dallas, Texas 75235 • (214) 904-2100

June 12, 1995

Mr. John Bird
Product Manager
Printing Research
10954 Shady Trail
Dallas, TX 75220

Re: Letter of Agreement and Understanding

Dear John:

As promised in my letter of May 30, regarding the above referenced, I will attempt to address the issues set forth in your letter to me dated May 12, 1995. I will address them in the order in which you have outlined in your letter.

Please note my suggestions for the final draft of the Letter of Agreement and Understanding between Printing Research, Inc. (PRI) and Williamson Printing Corporation (WPC), as follows:

1. **EZ Interstation Flexo Printer/Coater**

- A. Lithoflex - Although your statement is correct, and presents no objection from us, our patent and copyright attorney has advised us that the term "Lithoflex" is already being used by another company.
- B. GAM and GATF - We choose not to participate as you have outlined at this time, for we feel it is somewhat premature, and would not be in our best interest. Consequently, we have declined to participate in the GATF Sheetfed Conference panel.
- C. Super Blue EZ Interstation Flexo Printer/Coater (EZI) - The first such unit which has been installed on the CD 7+L press, is an experimental model that should not count as being one of the units involved in our transaction. We believe that the agreement we reached calls for the first, final design, of the EZI, including all its final features, was suppose to be installed on the 6/C CD 6+LYL, at no charge with the expected installation time to be mid-August 1995. The second such unit, final design, including all final features, etc., is to be offered to WPC at one-half of the list price, as soon as possible. This is the way we understood the agreement, and hopefully this clarifies any misunderstanding.

page 1 of 3

CONFIDENTIAL

June 12, 1995

page 2 of 3

Re: Letter of Agreement and Understanding

Apparently the WPC PO 3315 that has been issued in your favor, should read "no charge."

- D. Exclusivity Agreement - I will address this document and make my comments on a separate attachment, as it has been presented by you. Basically, I believe we originally discussed having more time than you have indicated.

2. Heidelberg Speedmaster CD 6+LYL (Press #3)

- A. Gloss Readings - It is my understanding that several changes have been made and tested this past weekend, Saturday and Sunday, June 3 and 4, and we have seen some improvement in the "gloss back." However, we are still not achieving our expectations, and it is not performing at an acceptable level, such as achieving expected press speeds, etc.
- B. UV Lamps - Since your PRI document was written on May 12, 1995, further developments have taken place which change the possible plan of action to achieve the minimal spray powder contamination and sheet flutter effects.

In the June 3 and June 4, 1995 testing, we added 4 lamps in the lower horizontal aperture of the extended delivery. At this time, it is not clear what needs to be done to achieve curing of the total sheet surface at maximum press speeds with no spray power contamination.

We will continue working together to achieve this goal.

3. Heidelberg Speedmaster CD 8+L (Press #5)

- A. Ordered "UV" Ready - This press has been ordered as suggested.
- B. PRI Proposal to WPC - After we have achieved a "successful test," PRI is to furnish WPC with a proposal, including attractive, discounted prices.

CONFIDENTIAL

PRI 00639

Williamson Printing Corporation

June 12, 1995

page 3 of 3

Re: Letter of Agreement, and Understanding

4. Web Offset 38 Inch UV Coating System

- A. PRI is to arrange a visit for WPC to Sheffer's installation - We agree.
- B. PRI Is To Prepare A Proposal For Joint Sheffer/PRI Coater Package - We agree.


As indicated above, enclosed please find the attachment addressing our "Exclusivity Agreement," for your review.

I hope my comments will be well received, and integrated into our final draft.

In the meantime, we, too, look forward to a continuing successful business relationship.

If you have any questions, please do not hesitate to give me a call.

Very truly yours,


Jerry Williamson
Chairman of the Board

JBW:db

cc: Jesse Williamson, WPC
Bill Davis, WPC
Bob Emrick, WPC
Jim Johson, WPC
Steve Garner, PRI
Steve Baker, PRI

CONFIDENTIAL

PRI 00640

June 12, 1995

EXCLUSIVITY AGREEMENT

Williamson Printing Corporation (WPC) and Printing Research, Inc. (PRI) have entered into an agreement for the Super Blue EZ Interstation Flexo Printer/Coater (EZI), and the purpose of this document is to set out the perimeters of that agreement, including the granting of "Exclusive Rights" between the parties.

A brief description outlining the terms of this agreement is set out as follows:

1. PRI agrees to manufacture and supply to WPC one EZI at no cost to WPC. This unit shall not be an experimental unit, but one that has been developed to final form, tested, approved for commercial operation and accepted by WPC. PRI grants WPC "exclusive rights" to this unit within the terms and conditions set out here below. ✓
2. These "exclusive rights" mean that, with respect to EZI, PRI will not sell, supply, assist or, help to install to or for any other commercial printing company, engaged in commercial printing, within the territorial markets, and during the time frames as set out here below:
 - A. National Market - This market is to include all of North America, including Canada, Mexico and the U.S., and WPC is granted these "exclusive rights" for a period of one year, beginning from the date the referenced EZI has been accepted by WPC. 1 month
 - B. Regional Market - This market is to include Texas and the continuous states, Louisiana, Arkansas, Oklahoma, New Mexico, and, also to include the states of Arizona and Colorado, and WPC is granted these "exclusive rights" for a period of two years, beginning from the date the referenced EZI has been accepted by WPC. 12 months
3. PRI will not accept an order, ~~sell or~~ ^{can sell not deliver or install} install the EZI during the "exclusive rights" time period as set out above, by installing the EZI on a printing unit located before, or ahead of, the last printing unit of the press.
4. The "exclusivity agreement" shall exclude those printing firms that are exclusively in the market of producing "folding cartons," "labels," and "greeting cards." This will represent an exception to the "exclusivity rights" as granted WPC from PRI.

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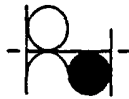
June 12, 1995
page 2 of 2

EXCLUSIVITY AGREEMENT (cont.)

5. PRI agrees to grant WPC "exclusive rights" for producing products identified and defined as "trading cards" and "pogs," for a period of ten years, and covering a world-wide territory. *include in 2*
6. Should PRI desire revisions to the terms of this agreement, it shall request such revisions in writing to WPC, and WPC agrees to respond to such a request on a timely basis, and not withhold approval unreasonably. ✓
7. Should either party violate the terms of this agreement, the party guilty of the violation shall pay the other party liquidated damages in the sum of \$250,000. Such liquidated damages shall be paid in U.S. dollars at the home office of the appropriate party in Dallas, County, Texas, within thirty days of receiving written notice of such violation. *find a way to comply*
8. Should any disagreement arise out of this agreement, and the parties cannot reach an agreeable settlement, or an acceptable understanding, both parties agree to have a third party, unbiased arbitrator, chosen to settle the issue/issues. After such arbitration, if the parties still remain in disagreement, and legal action is required, the jurisdiction for such legal action shall be an appropriate court located in Dallas, County, Texas. ✓

Back by 21st August

CONFIDENTIAL



Printing Research, Inc.

"Mark-less" Super Blue®

July 18, 1995

Mr. Jerry Williamson
Williamson Printing Co.
6700 Denton Dr.
Dallas, TX 75235

214-904-2100 (Phone)

Handwritten initials: J.W.

Dear Jerry,

Reference your letter of June 12, 1995. As of today's date it has not proved possible to get the necessary people together to discuss its content.

We are in any case continuing to give an exclusive to WPC in the spirit of our partnering and trust that we will be able to react to your letter in the near future.

We apologize for the delay.

Sincerely yours,

Handwritten signature: John Bird

John Bird
Product Manager

WB:th

cc: Jesse Williamson - WPC
Bill Davis - WPC
Bob Emrick - WPC
Jim Johnson - WPC
Howard DeMoore - PRI
Steve Garner - PRI

Δ π EXHIBIT <u>29</u>	
Deponent	<u>Bird</u>
Date	<u>11/20/00</u>
Rptr.	<u>x</u>
WWW.DEPOBOOK.COM	

W000625



Williamson Printing Corporation

6700 Denton Drive • Dallas, Texas 75235 • (214) 904-2100

August 11, 1995

Mr. John Bird
Product Manager
Printing Research, Inc.
10954 Shady Trail
Dallas, Texas 75220



Re: Letter of Agreement and Understanding

Dear John:

Pursuant to our meeting on the afternoon of Thursday, August 10, 1995, this letter will serve to confirm those matters discussed regarding the above referenced, and specifically the draft of my letter concerning same subject dated June 12, 1995.

We reviewed the June 12 letter, referenced, in the same order as presented in the letter, I will set forth here below our comments on those matters in the same order as follows:

1. **EZ Interstation Flexo Printer/Coater**

- A. Lithoflex - We are in agreement here.
- B. GAM and GATF - We are in agreement here.
- C. Super Blue EZ Interstation Flexo Printer/Coater (EZI) - We are in agreement here.
- D. Exclusivity Agreement - Our comments and discussion on this agreement will be outlined in more detail later on in this letter.

2. **Heidelberg Speedmaster CD 6+LYL (Press #3)**

- A. Gloss Readings - The "gloss back" issue has been addressed in the interim, and a final determination shall be made after our "final testing," which is scheduled for next week.

CONFIDENTIAL

PRI 00626

#27

Williamson Printing Corporation

August 11, 1995

Re: Letter of Agreement and Understanding

Page 2

- B. UV Lamps - The "UV Lamp" issue has been addressed in the interim, and a final determination shall be made after our "final testing," which is scheduled for next week.

3. Heidelberg Speedmaster CD 8+L (Press #5)

- A. Ordered "UV" Ready - This press has been ordered as suggested being "UV prepped."
- B. PRI Proposal to WPC - This press has been "dressed out" and "prepped" with UV interstation drying and is to be tested next week as scheduled.

4. Web Offset 38 Inch UV Coating System

- A. PRI is to arrange a visit for WPC to Sheffer's installation - This has not been accomplished yet, but will be scheduled as soon as is mutually convenient.
- B. PRI Is To Prepare a Proposal For Joint Sheffer/PRI Coater Package - This has not been accomplished yet, but PRI will prepare and present such a proposal just as soon as possible, and no later than one week from this date.

1., D.) Exclusivity Agreement (referenced above)

1. We are in agreement, as stated.
2. Terms on the "Exclusive Rights" shall be modified to allow PRI to accept an order from another printing company, but PRI shall not deliver or install the items ordered until the terms of the "Exclusivity" have expired;
 - A. National Market - We proposed a compromise from one year to nine months.
 - B. Regional Market - We proposed a compromise from two years to eighteen months.
3. It was proposed to modify this clause to read that PRI will be allowed to accept orders for their equipment, but not to deliver and/or install it during the "exclusivity term" covering the "time period," as referenced in paragraph #2 above.
4. We are in agreement to this clause as written.

CONFIDENTIAL

PRI 00627

Williamson Printing Corporation

August 11, 1995

Re: Letter of Agreement and Understanding

Page 3

5. Recognizing the basis of your objections, we suggest modifying this clause to read that PRI agrees to grant WPC "exclusive rights" for the products defined as "trading cards" and "pogs" under the same terms as set out above in paragraph #2, and shall not sell to another printing company that is currently producing products, either knowingly or on the basis of "should have known."

6. We are in agreement to this clause as written.

7. You expressed some concern about this clause covering "liquidated damages" and we agreed that you would discuss with your colleagues at PRI concerning the reasons why we believe this clause should be included in our letter of agreement. Liquidated amount would simply establish a fixed amount of damages should either party violate the terms of this agreement. We have agreed to lower the amount of "liquidated damages" to \$100,000. We also determined that the liquidated damages would only be effective after the arbitrator had ruled, as set out below in paragraph #8. Basically, this allows for an orderly, expeditious and cost saving way of settling disputes, if any, that may arise.

8. We are in agreement to this clause as written. *Such arbitrator to be assigned*

Assuming that the testing is completed as we have scheduled for next week, we have agreed to finalize this "Letter of Agreement and Understanding" no later than August 21, 1995.

Incidentally, another issue that has arisen which was not discussed during our meeting, was the availability of services, including parts, on a 24 hours a day, 7 days a week schedule. As you know, during our recent working together, from time to time PRI has been unable to solve a service problem due to your personnel not being able to obtain the necessary parts during off hours.

As you can appreciate, in order for us to reach our mutual goals and objectives, and to achieve these in an efficient and cost saving fashion, it will be absolutely necessary that we reach a satisfactory solution to this "parts availability problem." Of course, one of the main reasons we chose to enter into this arrangement with you was that the company was located here locally and close to our facilities, which gave us great comfort in your being able to provide us the necessary support, particularly in emergency situations and "off hour" times. Please give me your response and recommended solution on this particular issue just as soon as possible.

CONFIDENTIAL

PRI 00628

Williamson Printing Corporation

August 11, 1995

Re: Letter of Agreement and Understanding

Page 4

I hope that the above fairly well outlines and confirms matters discussed in our meeting, but, if not, please let me know immediately. All of us here at WPC are still very much looking forward to our continuing our "business partnership and alliance."

I want to take this opportunity to thank you for your attention and professional courtesy, and if you have any questions or comments, please do not hesitate to give me a call.

Very truly yours,



Jerry Williamson

cc: Jesse Williamson, WPC
Bill Davis, WPC
Bob Emrick, WPC
Jim Johnsonm, WPC
Steve Garner, PRI
Steve Baker, PRI

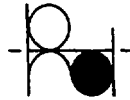
TO: "M" 1200 X \$40
Pizzillo 600 X \$25
CNC MACHINE 240 X \$60
Materials
Effort (Misc. people)
Free machine + Lat profit

48,000
15,000
14,400
<u>40,000</u>
117,400
<u>15,000</u>
132,400
<u>45,000</u>
\$ 177,400

CONFIDENTIAL

PRI 00629

THE UNIVERSITY OF CHICAGO



Printing Research, Inc.

"Mark-less" Super Blue

August 21, 1995

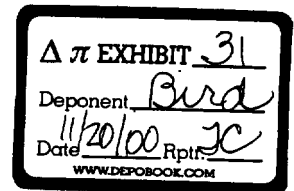
Mr. Jim Johnson
Williamson Printing Corp.
6700 Denton Dr.
Dallas, TX 75235-4497

Dear Jim,

The following confirms our conversation of last week.

1. A 125 anilox roll has been delivered to you and is with other Printing Research components in the press room for test purposes.
2. Contact name and address at Rogers Corporation follows. This is the company that manufactures resilient underplate material for thin film flexographic application.

Thomas "Tom" Rolland
Rogers Corporation
Poron Materials Division
125 Flowing Spring Trail
Roswell, GA 30075
404-518-7871
404-518-7875 (fax)



3. We plan to install the hydraulic automated retraction system on the EZ coater installed on press #1 8-26-95. We have scheduled several key people for this installation.
4. PRI has the EZ Interstation coater scheduled for installation at the first printing unit of a Heidelberg Speedmaster CD102 to be decided for the weekend of 9-16-95 or 9-23-95. Please let us know whether this is acceptable to you.
5. We plan to run the final testing program on the Heidelberg Speedmaster CD102-6+LYL press #3 on 8-26-95.
6. Press #5 is scheduled for delivery the week after Labor day and will start installation the week of 9-11-95. PRI should be prepared for installation of Super Blue ABII the week of 9-25-95.

CONFIDENTIAL

PRI 00622

29

Williamson Printing Corp.
Page 2

We look forward to serving your needs and thank you for your interest in our **Super Blue** range of products. For more information please contact us at 1-800-627-5537.

Sincerely yours,



John Bird
Product Manager

JB:th

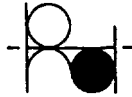
cc: Bob Emrick - WPC
Bill Davis - WPC
Steve Garner
Dave Douglas

CONFIDENTIAL

CONFIDENTIAL

PRI 00623

JESSE
WILLIAMSON



Printing Research, Inc.
"Mark-less" Super Blue®

August 22, 1995

Mr. Jerry Williamson
Williamson Printing Corporation
6700 Denton Drive
Dallas TX 75235

214-904-2100 (Phone)

Dear Jerry,

Referring to your letter of August 11, 1995, we respond to the pertinent points as follows:

1. We are in agreement.
2. We are in agreement.
3. Heidelberg Speedmaster CD102, 8+L (Press #5).
A proposal for 'Cold' UV throughout is enclosed. (Proposal Number 095818).
4. Web Offset, 38 inch UV Coating System.
A proposal for a Super Blue 'Cold' UV Drying System and a Scheffer Coating System is enclosed. (Proposal Number 095822).

Exclusivity Agreement:

1. We are in agreement.
2. Agreed, except that we would like to stay with:
 - A. National Market - 6 months.
 - B. Regional Market - 12 months.
3. Proposal is enclosed.
4. Proposal is enclosed.
5. We cannot agree to this clause since we have no way of knowing what our customers may wish to print and cannot dictate what they print.
6. We are in agreement.
7. We cannot agree to this clause:
Liquidated damages and/or any lawsuit is simply not true to the spirit of our intentions.
8. We are in agreement with this clause, although we do not see the need for an 'unbiased aribtrator.' We do however feel uncomfortable with this clause since it is making our 'Partnering Agreement' more of a legal document than originally intended.



W000633

[illegible]

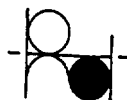
While we are committed to providing WPC with availability of our service team 24 hours a day, there will be cases when we will not have a man in Dallas able to instantly react to your need. Our service team are all available through pagers and will at least be able to advise over the telephone 24 hours a day. As for spare parts, we recommend a spare parts list that WPC can purchase and avert most difficulties in getting a needed part.

Sincerely yours,

John Bird
Product Manager

Enclosures:

W000634



Printing Research, Inc.
"Mark-less" Super Blue®

095818
Williamson Ptg. Corp.
August 18, 1995

SUMMARY OF PROPOSAL
for
HEIDELBERG SPEEDMASTER CD 8CT / 40

<u>QTY</u>	<u>EQUIPMENT</u>	<u>PRICE</u>
1	SUPER BLUE TWELVE LAMP 'COLD' UV DRYING SYSTEM (SCU)	<u>\$338,728.</u>
	TOTAL EQUIPMENT (FOB Factory)	\$338,728.

OPTIONS

MEMORY RAMPING	\$ 9,000. \$16,200.
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ESTIMATE: INSTALLATION AND TRAINING \$25,000.

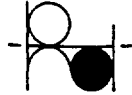
<u>QTY</u>	<u>RECOMMENDED SPARE PARTS</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
12	SPARE UV LAMPS	338.	\$ 4,056.
4	FILTER TUBES	587.	<u>2,348.</u>
	TOTAL RECOMMENDED SPARE PARTS		\$ 6,404.

'Proposal', 'Sales Terms and Conditions' on Reverse Side and 'Terms of Proposal' Accepted by:

NAME _____
TITLE _____
SIGNATURE _____
DATE _____

W000635

THE END



Printing Research, Inc.
"Mark-less" Super Blue[®]

SCU 095818
Williamson Ptg. Corp.
August 18, 1995

PROPOSAL

for

SUPER BLUE SCU[™] 'COLD' UV DRYING SYSTEM

<u>PRESS</u>	<u>COLOR/SIZE</u>	<u>LAMPS</u>	<u>RATING</u>	<u>PRICE</u>
HEIDELBERG SPEEDMASTER 102CD 8+L	8CT / 40	12	300 watt/inch	\$ 338,728.

One lamp each between printing units 1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/CT and four in the delivery.

OPTIONS:

Memory	\$ 9,000.
Ramping	\$ 16,200.

RECOMMENDED SPARE PARTS:

UV Lamps (each)	\$ 338.
Filter Tubes (each)	\$ 587.

PURPOSE

Curing (drying) UV inks, varnishes or coating on sheet or web fed presses.

APPLICATION

Paper, Card, Carton Board, Corrugated, Plastic, Foil

CONFIGURATION

Curing heads are linked to impression of press and automatically switch to standby mode when press is off impression for five minutes. If no further action is taken, then lamps automatically turn off; if the press is put back into impression, the lamps automatically return too full power.

Standard Control Unit contains all necessary switchgear and controls to provide individual lamp selection, full and reduced individual power switching, elapsed life meters, lamp indicators and emergency stop button.

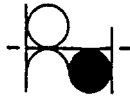
Main power transformer, capacitor banks and closed loop exchanger plant are supplied as floor standing modules. Full safety interlock circuits are fitted throughout. Ozone and heat extraction from the press are not normally required.

SPECIAL FEATURES

- 'Cold' UV Dryer controls integrated with press controls
- 'Panel Ajar/Catwalk' warning to make lamps inoperable
- LED conductivity with diagnostic meter for deionized water system
- Heat exhaust on all between unit stations

Enclosures: Sales Terms and Conditions
Terms of Proposal

W000636



Printing Research, Inc.

"Mark-less" Super Blue®

WCCU 095822
Williamson Printing Corp.
August 22, 1995

PROPOSAL

for

SCHEFFER 4 ROLL WEB COATING & SUPER BLUE WEB 'COLD' UV DRYING SYSTEM

One 38 inch UV coating system suitable for speeds up to 1200 ft/in. - two side application. Features for each side application include but are not limited to the following:

1. FOUR ROLL DESIGN COATER TRAIN

- A. EPDM cover pan roller of 85 durometer, 0-85 RPM with running mechanical impression adjustment to transfer cylinder. Pan roller is variable speed controlled with "skewing" capability for added film regulation. Sunday drive with $\frac{3}{4}$ H.P. for continuous movements of pan roller when press is down. Pan roll has quick change clam shell bearing arrangement.
- B. Stainless steel anilox transfer cylinder with 200 cell "Roto-Flo" design to facilitate even application of coating. Doctor blade assembly, adjustable on the run from gear to operator side included. Sunday drive similar to pan roll drive included to keep wet cylinders moving. Anti-sling ring assemblies with running adjustments at ends of cylinder transfer is sized larger for optimum material transfer.
- C. Magnetic plate cylinder, undercut to be discussed and determined by customer based upon type and style of plate to be used. Grid pattern for plate positioning included.
- D. Solid nickel plated impression cylinder.

- 2. Both plate and impression cylinders are adjustable on the fly from gear to operator side up to .005".
- 3. Stainless steel coater pan with double diaphragm recirculating pump/tank and flow control. Internal components designed to operate with U.V. coating material.
- 4. Motorized 360° circumferential register and $\pm \frac{1}{4}$ " motorized sidelay. Adjustments can be made at coater or at remote station pre-wired and provided by Scheffer. Location to be determined by customer.

W000637

5. Tandler gear box with pneumatic clutch with on/off indicator.
6. Weight of each side coater - approximately 10,000 pounds.
7. On/Off pneumatic impression of plate and impression cylinders.
8. HSP requirements: Running 4 HSP.
 Braking 10 HSP.
9. Two roll, chill roll stand with variable speed control. Rotary unions and piping included. Drive connection included.
10. Main support structure, drive connections and guarding. Four sided work platform, handrails and ladder and all necessary lead in/lead out idler rollers included. These idler rollers are multi-adjustable.
11. A. Six each curing heads linked to impression of press and automatically switch to standby mode when press is off impression for five minutes. If no further action is taken, then lamps automatically turn off; if the press is put back into impression, the lamps automatically return to full power.

Standard Control Unit contains all necessary switchgear and controls to provide individual lamp selection, full and reduced individual power switching, elapsed life meters, lamp indicators and emergency stop button.

Main power transformer, capacitor banks and closed loop heat exchanger plant are supplied as floor standing modules. Full safety interlock circuits are fitted throughout. Ozone/heat extraction from the UV dryer tunnel are not normally required.

- B. Special features include:
- Water Cooled Shutters
 - Water Cooled Heat Sink Plate
 - LED conductivity with diagnostic meter for deionized water system
 - Heat exhaust on each UV lamp head

PRICE: \$697,714 for complete two side application.

Option if installed on an existing press: Web severer and web break detectors \$6,600.

WCCU 095822
Williamson Printing Corp.
August 22, 1995

SHIPPING INSTALLATION: Estimated at \$20,000-\$40,000. Start-up and training included.

SPARE PARTS: Recommendations: To be advised.

PRICING:

Prices include standard support structure, drive take-off from the press, guarding and crating.

Prices exclude any service charge for the installation, start-up, web-up platforms, ladders or handrails.

TERMS:

50% with order.
40% prior to shipment.
10% net thirty days from date of shipment.

SHIPMENT:

16-20 weeks.

The above shipping schedule is based upon existing backlogs. The actual shipping schedule date will be confirmed upon receipt of order and the down payment.

All equipment "ex-works" Merrillville, Indiana

W000639

PRINTING RESEARCH, INC.
TERMS OF PROPOSAL

1. **PRICING:** Prices are based on clear access to and within the press to install our standard equipment. Any variance, deviation or encumbrance will be subject to price review. Installation is priced separately and all electrical, plumbing, engineering or other contracted services including materials to prepare the site for installation are the customer's responsibility.
2. **TERMS:** 40% with purchase order and signed sales contract. 50% upon notification of readiness for shipment. Please note in order to release shipments, payment must be received. Balance 30 days after installation or 45 days from delivery, whichever is earlier.
Please Note, when payment for a unit is due, it is payable without regard to the status of another unit which might be purchased at the same time.
3. **WARRANTY CONDITIONS:** 12 months on defective parts. **EXCEPTION:** UV Lamps - Guaranteed for 1000 operating hours. If failure occurs prior to 1000 hours of operation and after seller's inspection, proves to be due to manufacturing defects, 100% credit or a free replacement lamp will be provided.
4. **CONDITIONS OF SALE:** This quotation is subject to our "General Terms and Conditions for Coating and Drying Systems" on reverse of Summary. The company accepts no liability whatsoever for any loss of production, loss of profit or other loss to customer in connection with the equipment and/or its installation.
5. **STANDARD DELIVERY:** Is usually 12 - 16 weeks from receipt of official order and first stage payment. FOB Factory.
6. **INSTALLATION AND TRAINING:** \$575.00 per day per man plus airfare. (\$85 per hour if work day exceeds 8 hours).
7. **ELECTRICAL STANDARD:** 220/240, 460/480 volts, 3 or 4 wire (Delta or Wye) 60 hz. Existing electrical services must be specified on the purchase order.

Notes: A. ABI Air Blanket 1 Infrared Dryer BV BacVac Vacuum Transfer System standard electrical supply voltage 220/240 volts.

B. ABII Air Blanket 11 Infrared Dryer standard electrical supply voltage 460/480 volts.

C. HV High Velocity Hot Air Dryer standard electrical supply voltage 460/480 volts.

Electrical service other than that quoted above may cause a delay and an additional charge for a transformer.

8. **SERVICES TO BE PAID FOR AND PROVIDED BY CUSTOMER:**

GENERAL: Buyer agrees to prepare the press for installation, which may require relocating accessories including spray powder units, static bars, etc. Any relocation or modification of accessories will be the sole responsibility of the buyer. In the event Printing Research (P.R.I.) technicians are requested to modify or relocate any accessory, there will be an additional charge assessed to the buyer based on P.R.I.'s applicable hourly rate. P.R.I. will not warranty the performance of any accessories moved. When applicable, the buyer will supply clean, dry compressed air.

HV/PBC/IR/UV/EZ/BV/VH

The customer agrees to supply and pay for electricians, plumbers, engineering services and all materials required to install and interconnect (if necessary) the equipment being supplied by Printing Research, Inc. The electrical, plumbing, water, compressed air and refrigeration lines being supplied by the customer are to be connected to the equipment being installed. Printing Research, Inc. is responsible for activating the installed systems and will supply the labor necessary in that regard.

9. **ADDITIONAL SPECIFIC SERVICES TO BE PROVIDED BY CUSTOMER:**

HV (High Velocity Hot Air Dryer)

- Provide duct work and duct work extraction.
- Provide raised walkplates to cover air supply and return lines lying on the floor.

PBC (Plate Blanket Coater)

- Provide coating and cleaning agent for testing and training.
- 55 gallon barrel of hydraulic oil
- Compressed air line up to 100 p.s.i.
- Lifting gear to place coater on press
- Provide relief plate to conduct plate coating test.

UV (Water Cooled and 'Cold' UV)

- Duct work and extraction, if required
- Clean, dry compressed air adjacent to within 10 feet of the location of lamps; compressor must be able to deliver 0.5 c.f.m. per linear inch per lamp at up to 100 p.s.i.
- The chilling system is not precharged with refrigerant due to the variability of installation requirements and is priced accordingly.

The customer agrees to pay for all refrigerant needed to complete the installation.

'COLD' UV

- Provide 25-50 gallons of non-charcoal filtered steam distilled water.
- It is necessary to arrange for a local service water purification contract.

EZ (EZ Impression Cylinder Coater)

- Compressed air line up to 100 p.s.i.
- Provide coating and cleaning agent for testing and training.
- Grippers and gripper bar assemblies need to be cleaned and tuned prior to installation.

VH (Vent-A-Hood)

- Provide all duct work including penetrating and resealing the ceiling and/or roof and electrical interconnections to other equipment.

10. **LOCAL INSPECTIONS, PERMITS OR CERTIFICATIONS:**

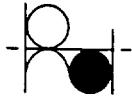
- Any additional local inspections, permits or certifications and the costs thereof are the sole responsibility of the buyer.

Prices are firm 60 days from the date of this proposal.

W000640

03/10/95

THE UNIVERSITY OF CHICAGO



Printing Research, Inc.

"Mark-less" Super Blue

February 8, 1996

Mr. Jesse Williamson
Williamson Printing Corp.
6700 Denton Drive
Dallas, TX 75235

214-904-2100 (Phone)

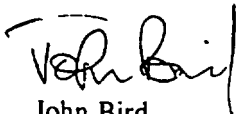
Dear Jesse,

The following confirms agreements achieved during our meeting of 2-5-96.

1. You are to advise Heidelberg USA (Bob Boyer) to pay for the HV equipment and installation on press #3. This will bring all our agreed and contracted Heidelberg work upto date.
2. We are to invoice you direct for the outstanding three (3) Vent-a-Hoods to be installed over the deliveries of press #1,2 and 5 for the delivered and installed price of \$4,400 per press. This will net WPC a 30% discount since the list price for this product is \$5,725.
3. We have enclosed a Sales Contract and invoice for the two (2) lamp 'Cold' UV system installed on press #3, Heidelberg CD102-6+LYL.
4. Upon acceptance of the EZ Interstation printer/coater supplied and installed at no charge we will upon your instruction start manufacture of the second EZ Interstation printer/coater (press and position to be advised) at half the original list price of \$62,084 reference our letter and proposal of February 16th, 1995. Based on now known parameters, this product will list in the market place for approximately \$100,000.

We look forward to our continued "Partnering for Progress."

Sincerely yours,



John Bird
Director Sales & Marketing

JB:th

Enclosures: Invoice VAH/Sales Contract CUV

cc: Woody Dixon - WPC
Bob Emrick - WPC
Jim Johnson - WPC
Bill Davis - WPC
Steve Garner



CONFIDENTIAL

PRI 00265

THE UNIVERSITY OF CHICAGO



WILLIAMSON PRINTING CORPORATION

6700 Denton Drive Dallas, Texas 75235-4497 214 904 2100 Fax: 214 352 1842 WATS: 800 843 5423

September 17, 1996

FAX: 214-357-5847

Mr. John Bird
Printing Research, Inc.
10954 Shady Trail
Dallas, Texas 75220

RE: EZ Coaters

Dear John:

There is another problem that has come up in regards to your equipment. It was brought to my attention today that the EZ coating units are not all common in the manufacturing. It is mandatory that all three EZ coating units are identical. They need to be identical in gearing, rollers and etc.

I have been told that you cannot use the same anilox roller from one press to the next because of the difference in the way the EZ coaters are manufactured.

It is now 4:45pm. I would like to know from you, within 24 hours, when this problem will be addressed and corrected.


Any down time, loss of business or spoilage will be charged back to Printing Research in regards to the easy coaters.

John, I am starting to feel very uncomfortable with everyone at Printing Research. I truly thought that Howard's stated (I felt like it was from his heart), "We want to be partners in business," but that is not what is happening.

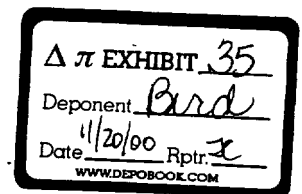
Again, please respond to me regarding the above within 24 hours.

I look forward to hearing from you.

Respectfully,


Jesse Williamson
JW/rr

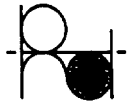
cc: Jerry Williamson
Woody Dixon
Bob Emrick
Bill Davis
Steve Garner



CONFIDENTIAL

PRI 00804

1. The first part of the document is a list of references. It includes a list of books, articles, and other sources used in the research. The references are listed in alphabetical order by the author's name.



Printing Research, Inc.
"Mark-less" Super Blue®

September 18, 1996

1-2-96
**COPY FOR YOUR
INFORMATION**

Mr. Jesse Williamson
Williamson Printing Corporation
6700 Denton Drive
Dallas TX 75235-4497

RE: YOUR LETTER OF SEPTEMBER 17, 1996 --
EZ COATERS

Dear Jesse,

We have had assurance from our Engineering staff that the working or replaceable components on the three EZ Coaters are completely interchangeable. What is meant by working or replaceable components is gears, cylinders, anilox rollers and the like.

Please accept our apologies for any misunderstanding that may have occurred on this matter.

Best regards,

John Bird
Director Sales and Marketing

JB:ln

cc: Jerry Williamson/WPC
Woody Dixon/WPC
Bob Emrick/WPC
Bill Davis/WPC
Steve Garner

Δ π EXHIBIT <u>36</u>	
Deponent	<u>Bird</u>
Date	<u>11/20/00</u> Rptr. <u>xc</u>
WWW.DEPOBOOK.COM	

CONFIDENTIAL

PRI 00808

UTILITY
SERIAL
NUMBER

PATENT DATE

PATENT
NUMBER

SERIAL NUMBER

FILING DATE

CLASS

SUBCLASS

GROUP ART UNIT

EXAMINER

APPLICANTS

Foreign priority claimed
35 USC 119 conditions met

☐ yes ☒ no
☐ yes ☒ no

AS
FILED

STATE OR
COUNTRY

SHEETS
DRWGS.

TOTAL
CLAIMS

INDEP.
CLAIMS

FILING FEE
RECEIVED

ATTORNEY'S
DOCKET NO.

11178/09001

Verified and Acknowledged

Examiner's Initials

ADD

TITLE

U.S. DEPT. OF COMM. / PAT. & TM - PTO-436L (Rev. 12-94)

PARTS OF APPLICATION
FILED SEPARATELY

NOTICE OF ALLOWANCE MAILED

Applications Examiner

CLAIMS ALLOWED

Total Claims

Print Claim

Assistant Examiner

ISSUE FEE

Amount Due

Date Paid

DRAWING

Sheets Drwg.

Figs. Drwg.

Print Fig.

Primary Examiner

ISSUE
BATCH
NUMBER

PREPARED FOR ISSUE

Label
Area

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Δ π EXHIBIT 37

Deponent Bird

Date 11/20/00 Rptr. sc

WWW.DEPOBOOK.COM

PTO-436A
8/92

W001349

BAR CODE LABEL



U.S. PATENT APPLICATION

SERIAL NUMBER

08/435,798

FILING DATE

05/04/95

CLASS

118

GROUP ART UNIT

1303

APPLICANT

RONALD M. RENDLEMAN, DALLAS, TX; HOWARD W. DEMOORE, DALLAS, TX; JOHN W. BIRD, CARROLLTON, TX.

CONTINUING DATA***
VERIFIED

FOREIGN/PCT APPLICATIONS***
VERIFIED

FOREIGN FILING LICENSE GRANTED 05/25/95

***** SMALL ENTITY *****

STATE OR
COUNTRY

TX

SHEETS
DRAWING

5

TOTAL
CLAIMS

34

INDEPENDENT
CLAIMS

6

FILING FEE
RECEIVED

\$633.00

ATTORNEY DOCKET NO.

B6012

ADDRESS

DENNIS T GRIGGS
AKIN GUMP STRAUSS HAUER & FELD
1700 PACIFIC AVENUE SUITE 4100
DALLAS TX 75201-4618

TITLE

RETRACTABLE INKING/COATING APPARATUS HAVING FERRIS MOVEMENT BETWEEN
PRINTING UNITS

This is to certify that annexed hereto is a true copy from the records of the United States
Patent and Trademark Office of the application which is identified above.

By authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

Date

Certifying Officer

W001350

PATENT APPLICATION SERIAL NO. _____

08 435798

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

TO: "PATENT"

110 MM 05/19/95 08435798

1 201 633.00 CK B6012

PTO-1556
(5/87)

W001351

08 435798

PATENT

Attorney Docket
No. B6012



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box PATENT APPLICATION
Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent applica-
tion of:

Inventors: Ronald M. Rendleman, Howard W. DeMoore
and John W. Bird

For: "Retractable Inking/Coating Apparatus
Having Ferris Movement Between Printing
Units"

Enclosed are:

<u>1</u> pages of abstract	<u>X</u> Combined Declaration/ Power of Attorney
<u>22</u> pages of specification	<u>X</u> Statement of Small Entity Status
<u>11</u> pages of claims	<u> </u> Assignment
<u>5</u> pages of drawings	
<u> </u> Other: <u> </u>	<u>X</u> Underpayment/Overpayment Instructions
	<u>X</u> Post Office Express Certificate <u>EF769560825US</u>

The filing fee has been calculated as shown below:

For:	No. Filed	No. Extra	Small Entity Rate	Fee
Basic Fee				\$365.00
Total Claims	34 - 20 =	14	x \$ 11....	154.00
Indep. Claims	6 - 3 =	3	x \$ 38....	114.00
Multiple dependent claims		-NONE-	+ \$120....	-0-
Assignment Recording Fee			\$ 40....	-0-
TOTAL.....				\$633.00

W001352

Our check in the amount of \$ 633.00 is enclosed.

Respectfully submitted,

Date: May 4, 1995

Dennis T. Griggs
Dennis T. Griggs
Attorney for Applicant
Registration No. 27,790

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.
1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4618
(214) 969-2747

772300 9692747

08 435798

PATENT

Attorney Docket
No. B6012



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: patent application of)

(RONALD M. RENDLEMAN, ET AL)

Serial No.:)

Group Art Unit _____

Filed: (Herewith))

Examiner:)

For: RETRACTABLE INKING/COATING)
APPARATUS HAVING FERRIS)
MOVEMENT BETWEEN PRINTING)
UNITS)

Box PATENT APPLICATION
Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

CERTIFICATE OF MAIL BY "EXPRESS MAIL"

"Express Mail" Mailing Label No. EF769560825US

Date of Deposit: Thursday, May 4, 1995

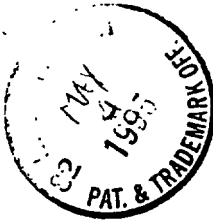
I hereby certify that the attached patent application papers and documents referred to as enclosed therewith are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on the date of deposit indicated above.

Kathy Longenecker
(Typed Name of Person Depositing
Envelope in Express Mail Facility)

Kathy Longenecker
Signature

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.
1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4618
(214) 969-2747

W001354



PATENT

Attorney Docket
No. B6012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE .

In re patent application of

RONALD M. RENDLEMAN, ET AL

Serial No.:

Filed: (Herewith) -

For: RETRACTABLE INKING/COATING
APPARATUS HAVING FERRIS
MOVEMENT BETWEEN PRINTING
UNITS

Group Art Unit _____

Examiner:

Box PATENT APPLICATION
Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

CORRESPONDENCE ADDRESS

Applicant requests that all correspondence regarding
the above-identified patent application be directed to:

Dennis T. Griggs
Akin, Gump, Strauss, Hauer & Feld, L.L.P.
1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4618

Please direct all telephone calls to:

Dennis T. Griggs
(214) 969-2747

Respectfully submitted,

Date: May 4, 1995

Dennis T. Griggs
Dennis T. Griggs
Registration No. 27,790
Attorney for Applicant

W001355

PATENT

Attorney Docket
No. B6012



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent application of

RONALD M. RENDLEMAN, ET AL

Serial No.:

Filed: (Herewith)

For: RETRACTABLE INKING/COATING
APPARATUS HAVING FERRIS
MOVEMENT BETWEEN PRINTING
UNITS

Group Art Unit _____

Examiner:

Box PATENT APPLICATION
Commissioner of Patents
& Trademarks
Washington, D.C. 20231

Sir:

INSTRUCTIONS AS TO
UNDERPAYMENT/OVERPAYMENT OF FEES

1. UNDERPAYMENT

The Commissioner is hereby authorized to charge any fee deficiency relating to the filing of this patent application to:

Deposit Account No. 01-0657

2. OVERPAYMENT

The Commissioner is hereby authorized to credit any fee overpayment relating to the filing of this patent application to:

Deposit Account No. 01-0657

Respectfully submitted,

Date: May 4, 1995

Dennis T. Griggs
Dennis T. Griggs
Registration No. 27,790
Attorney for Applicant

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.
1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4618
(214) 969-2747

W001356



Attorney Docket
No. B6012

SPECIFICATION

accompanying

Application for Grant of U.S. Letters Patent

**JOINT
INVENTORS:**

Ronald M. Rendleman
4331 Royal Ridge
Dallas, Texas 75229

Howard W. DeMoore
10954 Shady Trail
Dallas, Texas 75220

John W. Bird
1514 Iroquois Circle
Carrollton, Texas 75007

TITLE: "RETRACTABLE INKING/COATING APPARATUS HAVING FERRIS
MOVEMENT BETWEEN PRINTING UNITS"

Field of the Invention

1 This invention relates to sheet-fed or web-fed, rotary
2 offset or flexographic printing presses, and more particularly, to
3 a new and improved inking/coating apparatus for the in-line
4 application of printing inks or protective or decorative coatings
5 to sheets or web.

6 **Background of the Invention**

7 Conventional sheet-fed, rotary offset printing presses
8 typically include one or more printing units through which
9 individual sheets are fed and printed with wet ink. After the
10 last printing unit, the sheets are transferred by a delivery
11 conveyor to the delivery end of the press where the freshly
12 printed sheets are collected and stacked. In a typical sheet-fed,
13 rotary offset printing press such as the Heidelberg Speedmaster
14 line of presses, the delivery conveyor includes a pair of endless
15 gripper chains carrying gripper bars and gripper fingers which
16 grip and pull freshly printed sheets from the last impression
17 cylinder and convey the sheets to the sheet delivery stacker.

1 Since the inks used with rotary offset printing presses
2 typically remain wet and tacky for some time after printing,
3 special precautions must be taken to insure that the freshly
4 printed sheets are not marked or smeared as the sheets are
5 transferred from one printing unit to another, and while being
6 conveyed to the sheet delivery stacker. The printed surface of
7 the sheet dries relatively slowly and can be smeared during
8 subsequent transfer between printing units. In order to reduce
9 smearing and offsetting, spray powder is applied on the printed
10 sheet.

11 In some printing applications, offset and smearing are
12 prevented by applying a protective and/or decorative coating over
13 all or a portion of the freshly printed sheets. Some coating
14 solutions include varnish, lacquer, dye, moisturizers and ink.
15 Such coatings are formed of a UV-curable or water-dispersed resin
16 applied as a liquid solution or emulsion over the freshly printed
17 sheets to protect the ink and improve the appearance of the
18 freshly printed sheets. Such coatings are particularly desirable
19 when decorative or protective finishes are required such as in the
20 production of posters, record jackets, brochures, magazines,
21 folding cartons and the like. The coating is permeable to oxygen
22 to permit drying of the ink. In cases where a liquid coating is
23 to be applied, the coating operation is carried out after the last
24 color ink has been printed. In some cases, it is desirable to
25 spot coat from the printing plate. For both operations, the
26 coating is most desirably performed by an in-line coater.

27 In printing presses having flexographic printing plates,
28 an aqueous ink is used, for example metallic (gold) ink and opaque
29 white ink, both of which can be overprinted at the next printing
30 unit. An advantage of flexographic printing is that no dampening
31 unit is required. The flexographic printing plate has a raised
32 image surface (relief). Colors are stronger when flexographic
33 inks are used because they are not diluted by dampening solution.

1 Description of the Prior Art

2 Various arrangements have been made for applying the
3 coating as an in-line printing operation by using the last
4 printing unit of the press as the coating application unit. For
5 example, in U.S. Patents 4,270,483, 4,685,414 and 4,779,557, there
6 are disclosed coating apparatus which can be moved into position
7 to allow the blanket cylinder of the last printing unit of a press
8 to be used to apply a coating material to the sheets. In U.S.
9 Patent 4,796,556 and U.S. Patent 4,841,903 there is disclosed a
10 coating apparatus which can be selectively moved between the
11 blanket cylinder or the plate cylinder of the last printing unit
12 of the press so that the last printing unit can only be used for
13 coating purposes. However, when coating apparatus of these types
14 are used, the last printing unit cannot be used to apply ink to
15 the sheets, but rather can only be used for the coating operation.
16 Thus, while coating with these types of in-line coating apparatus,
17 the press loses the capability of printing its full range of
18 colors since the last printing unit is converted to a coating
19 unit.

20 Proposals for overcoming the problem of the loss of a
21 printing unit when in-line coating is desired have also been made,
22 such as that set forth in U.S. Patent 4,934,305 which discloses a
23 coating apparatus having a separately timed applicator roller
24 positioned to apply the coating material to the freshly printed
25 sheet while the sheet is on the last impression cylinder of the
26 press. This is said to allow the last printing unit to print and
27 coat simultaneously, so that no loss of a printing unit capability
28 results. Another approach to providing a coating unit without
29 losing the printing capabilities of the last printing unit is to
30 provide a totally separate coating unit downstream of the last
31 printing unit so that the coating is applied to the sheets after
32 the last printing unit. Such an arrangement is disclosed in U.S.
33 Patents 4,399,767, 4,706,601 and 5,176,077.

34 In an effort to reduce costs and maintain flexibility in
35 adapting the printing press to different jobs, coating apparatus

1 has been provided that can be selectively engaged with the plate
2 cylinder or blanket cylinder to carry out the coating operation,
3 and disengaged so that the last printing unit can be used for
4 offset printing when coating is not required. Examples of coaters
5 which are selectively engagable with either the plate cylinder or
6 the blanket cylinder are disclosed in U.S. Patent 4,615,293
7 (Jahn), U.S. Patent 5,107,790 (Sliker et al.) and U.S. Patent
8 4,841,903 (Bird).

9 The coater of U.S. Patent 4,615,293 includes two
10 applicator rollers, both disposed on the dampening side of the
11 plate cylinder and blanket cylinder for carrying out spot and
12 blanket coating operations as desired. The coater of U.S. Patent
13 5,107,790 is retractable along an inclined rail for extending and
14 retracting a coater head into engagement with either the plate
15 cylinder or the blanket cylinder. Because of its size, the
16 rail-retractable coater can only be installed between the last
17 printing unit of the press and the delivery stacker, and cannot be
18 used at interstation positions. The coaters of Patent 4,615,293
19 are located on the dampener side of the plate and blanket cylin-
20 ders, thus requiring removal of the dampening unit to make room
21 for the doctor blade head and applicator rollers. Consequently,
22 the last printing unit of the press is converted into a coating
23 unit, resulting in the loss of the printing capability of that
24 printing unit.

25 It will be appreciated that the time required to
26 reconfigure a press for coating or non-coating is non-productive
27 and costly. Accordingly, there is a need for a coating apparatus
28 which minimizes the time to clean-up from one printing run and set
29 up and run the next job. Where consecutive jobs require the same
30 type of coating, particularly blanket coating, it may not be
31 necessary to clean-up the coater between jobs. However, the
32 coating cannot be allowed to dry on the rollers. Therefore,
33 especially when switching from blanket to spot coating or vice
34 versa, or if there is a delay between jobs, it is necessary to
35 wash-up the coater after each job is completed.

1 In addition, wash-up is necessary when switching between
2 different coating compositions, such as aqueous and ultra violet
3 (UV) curable coatings. Such coatings are not interchangeable, and
4 the coaters must be washed between applications of the different
5 coating media. It is difficult to wash-up some coaters while the
6 press is running. Moreover, the retractable coaters mentioned
7 above occupy a large amount of press space and diminishes
8 accessibility to the press. Elaborate equipment is needed for
9 retracting the coater from the operative coating position to an
10 out-of-the-way, inoperative position which reduces access to the
11 printing unit.

12 A limitation on the use of flexographic printing plates
13 and aqueous printing inks is that the freshly printed or coated
14 sheets require hot air for drying. When applying an aqueous ink
15 such as opaque white or metallic gold, it is necessary to dry the
16 printed sheets between printing units before overprinting them.

17 Moreover, when utilizing lithographic printing inks, it
18 is necessary to frequently stop the press and wash the blanket.
19 Metallic ink in particular "piles" on the blanket and must be
20 washed frequently.

21 Objects of the Invention

22 Accordingly, the principal object of the present
23 invention is to provide improved inking/coating apparatus which is
24 capable of selectively applying ink or a coating material to a
25 plate on a plate cylinder or a coating material to a blanket on a
26 blanket cylinder of a printing press.

27 Another object of the present invention is to provide
28 inking/coating apparatus of the character described which is
29 extendable into inking/coating engagement with either a plate
30 cylinder or a blanket cylinder, and which is retractable to a non-
31 operative position to provide clear access to the cylinders of the
32 printing unit.

33 A related object of the present invention is to provide
34 inking/coating apparatus of the character described which is

1 capable of being used in an interstation position and does not
2 interfere with access to the press.

3 Yet another object of the present invention is to
4 provide inking/coating apparatus of the character described, which
5 can be moved from an operative inking/coating engagement position
6 to a non-operative, retracted position.

7 Still another object of the present invention is to
8 provide inking/coating apparatus of the character described, which
9 can be used for applying aqueous inks and coatings to a litho-
10 graphic printing plate or a flexographic printing plate in a
11 rotary offset press.

12 A related object of the present invention is to provide
13 inking/coating apparatus of the character described, which is
14 capable of applying aqueous coating at one printing unit and
15 drying the coating before it reaches the next printing unit where
16 it can be overprinted with aqueous ink or lithographic ink.

17 Another object of the present invention is to provide
18 inking/coating apparatus for use on a multiple color rotary offset
19 printing press that can apply ink or coating to the plate or
20 blanket of a printing unit from a single applicator head.

21 A related object of the invention is to provide
22 inking/coating apparatus of the character described, in which no
23 printing unit adjustment or alteration is required when the
24 applicator head is converted from plate to blanket operation and
25 vice versa.

26 Summary of the Invention

27 The foregoing objects are achieved by a retractable, in-
28 line inking/coating apparatus which is mounted on a printing unit
29 tower for pivotal, Ferris wheel type movement between an operative
30 inking/coating position and a retracted, overhead position. The
31 inking/coating apparatus includes an applicator head which extends
32 into and retracts out of engagement with a plate on a plate
33 cylinder or a blanket on a blanket cylinder. The inking/coating
34 applicator head is positioned in parallel alignment with either

1 the plate cylinder or the blanket cylinder by a carriage assembly
2 which includes a cantilever support arm. The support arm is
3 pivotally coupled between the inking/coating head and the printing
4 unit tower. This cantilevered, pivotal mounting arrangement
5 allows the inking/coating unit to be used between two printing
6 units, as well as installed on the last printing unit of the
7 press.

8 In the preferred embodiment, the applicator head
9 includes vertically spaced pairs of cradle members with one cradle
10 pair being adapted for supporting a metal or ceramic coating
11 roller in alignment with a blanket cylinder, and the other cradle
12 pair supporting a resilient anilox coating roller in alignment
13 with the plate cylinder, respectively, when the applicator head is
14 in the operative position. Because of the cantilevered, pivotal
15 support provided by the support arm, the applicator head can be
16 lifted and lowered through an arc, similar to Ferris wheel
17 movement, in the limited space between adjacent printing units.
18 When fully retracted, the coater and carriage assembly are lifted
19 to an overhead position overlying the printing unit tower, thus
20 providing complete access to the printing unit cylinders, without
21 causing the printing unit to lose its printing capability. The
22 inking/coating applicator roller can be inspected, cleaned or
23 replaced and the doctor blade assembly can be washed-up automati-
24 cally while the inking/coating apparatus is in the fully retracted
25 position.

26 When the inking/coating apparatus is used in combination
27 with a flexographic printing plate and aqueous ink or aqueous
28 coating, the water component of the aqueous ink or coating on the
29 freshly printed sheet is evaporated by a high velocity, hot air
30 interstation dryer and a high volume heat and moisture extractor
31 assembly so that the freshly printed ink or coating is completely
32 dry before the sheet is printed on the next printing unit. This
33 quick drying flexographic printing/coating arrangement permits a
34 base coat of ink, for example opaque white or metallic ink (gold,
35 silver or other metallics) to be applied in the first printing

1 unit, and then overprinted by the lithographic process on the next
2 printing unit.

3 Other features and advantages of the present invention
4 will become more apparent from the following detailed description
5 taken in conjunction with the accompanying drawings which
6 disclose, by way of example, the principles of the present
7 invention.

8 Brief Description of the Drawings

9 FIGURE 1 is a schematic side elevational view of a
10 sheet-fed, rotary offset printing press having inking/coating
11 apparatus embodying the present invention;

12 FIGURE 2 is a perspective view of the printing press of
13 FIGURE 1 in which a dual head inking/coating apparatus is in the
14 operative coating position and a single head coater is in a
15 retracted, overhead position;

16 FIGURE 3 is an enlarged simplified perspective view
17 showing one side of the single head inking/coating apparatus of
18 FIGURE 1 in the operative position;

19 FIGURE 4 is a simplified side elevational view showing
20 the dual head inking/coating apparatus in the operative coating
21 position for spot or overall coating from the blanket position;

22 FIGURE 5 is a simplified side elevational view showing
23 the single head inking/coating apparatus in the operative coating
24 position for spot or overall coating from the plate position; and,

25 FIGURE 6 is a simplified side elevational view of the
26 dual head inking/coating apparatus of FIGURE 4, partially broken
27 away, which illustrates the hydraulic drive assembly and doctor
28 blade assembly.

29 Detailed Description of the Preferred Embodiments

30 As used herein, the term "processed" refers to various
31 printing methods which may be applied to either side of a
32 substrate, including the application of UV-curable and aqueous
33 inks and/or coatings. The term "substrate" refers to sheet or web

1 material. Also, as used herein, the term "waterless printing
2 plate" refers to a printing plate having non-image surface areas
3 which are hydrophobic and also having image surface areas which
4 are hydrophilic, wherein the non-image surface areas are charac-
5 terized by a surface tension value which is less than the surface
6 tension of aqueous ink, and the image surface areas are character-
7 ized by a surface tension value which is greater than the surface
8 tension of aqueous ink. "Flexographic" refers to flexible
9 printing plates having a relief surface which is wettable by
10 aqueous ink or coating material.

11 As shown in the exemplary drawings, the present
12 invention is embodied in a new and improved in-line inking/coating
13 apparatus, herein generally designated 10, for use in applying
14 inks or protective and/or decorative coatings to sheets or webs
15 printed in a sheet-fed or web-fed, offset rotary or flexographic
16 printing press, herein generally designated 12. In this instance,
17 as shown in FIGURE 1, the inking/coating apparatus 10 is installed
18 in a four color printing press 12, such as that manufactured by
19 Heidelberger Druckmaschinen AG of the Federal Republic of Germany
20 under its designation Heidelberg Speedmaster 102V (40"). The
21 press 12 includes a press frame 14 coupled at one end, herein the
22 right end, to a sheet feeder 16 from which sheets, herein
23 designated S, are individually and sequentially fed into the
24 press, and at the opposite end, with a sheet delivery stacker 20
25 in which the freshly printed sheets are collected and stacked.
26 Interposed between the sheet feeder 16 and the sheet delivery
27 stacker 20 are four substantially identical sheet printing units
28 22, 24, 26 and 28 which can print different color inks onto the
29 sheets as they are transferred through the press 12. The printing
30 units are housed within printing towers T1, T2, T3 and T4 formed
31 by side frame members 14, 15.

32 As illustrated, the printing units 22, 24, 26 and 28 are
33 substantially identical and of conventional design. The first
34 printing unit 22 includes an in-feed transfer cylinder 30, a plate
35 cylinder 32, a blanker cylinder 34 and an impression cylinder 36,

1 all supported for rotation in parallel alignment between the press
2 side frames 14, 15 which define printing unit towers T1, T2, T3
3 and T4. Each of the first three printing units 22, 24 and 26 have
4 a transfer cylinder 38 disposed to withdraw the freshly printed
5 sheets from the adjacent impression cylinder and transfer the
6 freshly printed sheets to the next printing unit via an inter-
7 station transfer cylinder 40. The last printing unit 28 is shown
8 equipped with a delivery cylinder 42 which supports the printed
9 sheet 18 as it is transferred from the last impression cylinder 36
10 to a delivery conveyor system, generally designated 44, to the
11 sheet delivery stacker 20.

12 The delivery conveyor system 44 as shown in FIGURE 2 is
13 of conventional design and includes a pair of endless delivery
14 gripper chains 46, only one of which is shown carrying at regular
15 spaced locations along the chains, laterally disposed gripper bars
16 having gripper fingers used to grip the leading edge of a freshly
17 printed sheet 18 after it leaves the nip between the delivery
18 cylinder 42 and impression cylinder 36 of the last printing unit
19 28. As the leading edge is gripped by the grippers, the delivery
20 chains 46 pull the sheet away from the impression cylinder 36 and
21 convey the freshly printed sheet to the sheet delivery stacker 20.

22 Prior to reaching the delivery sheet stacker, the
23 freshly printed and/or coated sheets S pass under a delivery dryer
24 48 which includes a combination of infra-red thermal radiation,
25 high velocity hot air flow and a high performance heat and
26 moisture extractor for drying the ink and/or the protec-
27 tive/decorative coating.

28 In the exemplary embodiment shown in FIGURE 1, the first
29 printing unit 22 is equipped with a flexographic printing plate,
30 and does not require an inking roller train or a dampening system.
31 If an ink roller train is mounted on the first printing unit, the
32 form rollers are retracted and locked off when the printing unit
33 goes on impression. Flexographic aqueous ink is supplied by the
34 inking/coating unit 110. The remaining printing units 24, 26 and
35 28 are equipped for lithographic printing and include an inking

1 apparatus 50 having an inking roller train 52 arranged to transfer
2 ink from an ink fountain 54 to the plate cylinder 32. This is
3 accomplished with the aid of a fountain roller 56 and a ductor
4 roller. The fountain roller 56 projects into the ink fountain 54,
5 whereupon its surface is wetted with ink. The printing ink Q is
6 transferred intermittently to the inking roller train 52 by the
7 ductor roller. The inking roller train 52 supplies ink Q to the
8 image areas of a printing plate P mounted on the plate cylinder 32.

9 The printing ink Q is transferred from the printing
10 plate P to an ink receptive blanket B which is mounted on the
11 blanket cylinder 34. The inked image carried on the blanket B is
12 transferred to a sheet S as the sheet is transferred through the
13 nip between the impression cylinder 36 and the blanket B.

14 The inking roller arrangement 52 illustrated in FIGURE
15 1 is exemplary for use in combination with lithographic ink
16 printing plates. It will be understood that dampening rollers
17 (not illustrated) will be in direct engagement with the litho-
18 graphic plate P, but are not used in combination with the
19 flexographic plate of printing unit 22.

20 Referring now to FIGURE 4, FIGURE 5 and FIGURE 6, the
21 in-line inking/coating apparatus 10 includes a carriage assembly
22 58 which supports an applicator head 60. The applicator head 60
23 includes a hydraulic motor 62, a lower gear train 64, an upper
24 gear train 65, an applicator roller 66 and a doctor blade assembly
25 68. The external peripheral surface of the applicator roller 66
26 is inserted into wetting contact with liquid coating material or
27 ink contained in a reservoir 70. The reservoir is continuously
28 supplied with ink or coating which is circulated through the
29 reservoir 70 from an off-press source by a pump (not illustrated).
30 The hydraulic motor 62 drives the applicator roller 66 synchro-
31 nously with the plate cylinder 32 and the blanket cylinder 34 in
32 response to an RPM control signal from the press drive (not
33 illustrated) and a feedback signal developed by a tachometer 72.
34 While a hydraulic drive motor is preferred, an electric drive
35 motor can be used.

The fluid metering applicator 66 is preferably an anilox roller which transfers measured amounts of printing ink or coating material onto the printing plate or blanket. The surface of an anilox roller is engraved with an array of closely spaced, shallow depressions referred as "cells". Ink or coating from the reservoir 70 flows into the cells as the anilox roller turns through the reservoir. The transfer surface of the anilox roller is scraped with a doctor blade 73 to remove excess ink or coating. The ink or coating remaining on the anilox roller is that contained within the cells.

The anilox roller 66 is cylindrical and may be constructed in various diameters and lengths, containing cells of various sizes and shapes. The volumetric capacity of an anilox roller is established during manufacturing and is dependent upon the selection of cell size, shape and number of cells per unit area. Depending upon the intended application, the cell pattern may be fine (many small cells per square inch) or coarse (fewer larger cells per square inch).

By applying the ink or coating through the inking/coating applicator 60, more ink or coating can be delivered to the sheet S as compared with the inking roller train of a lithographic printing unit. Moreover, color intensity is stronger and more brilliant because the flexographic ink is applied at a much larger film thickness than can be applied by the lithographic process and is not diluted by dampening solution.

Preferably, the doctor blade assembly 68 is constructed as described in U.S. Patent 5,176,077 (DeMoore), which is incorporated herein by reference.

The applicator head 60 includes side frame members 74, 76 which support the applicator roller 66, gear train 64, gear train 65, doctor blade assembly 68 and the drive motor 62. The applicator roller 66 is supported at opposite ends on a lower cradle formed by a pair of end plates 78, 80 which hold the applicator roller 66 in parallel alignment with the blanket cylinder 34 (FIGURE 5). The side frame 74, 76 are also provided

1 with an upper cradle formed by a pair of side plates 82, 84 which
2 are vertically spaced with respect to the lower side plates 78,
3 80. Each cradle has a pair of sockets 79, 81 and 83, 85,
4 respectively, for holding an applicator roller 66 for spot coating
5 or inking engagement against the plate P of the plate cylinder 32
6 (FIGURE 4) or the blanket B of the blanket cylinder 34.

7 Preferably, the applicator roller 66 for the upper
8 cradle (plate) position is an anilox roller having a resilient
9 transfer surface. In the dual cradle arrangement, the press
10 operator can quickly change over from blanket inking/coating and
11 plate inking/coating with minimum press down time, since it is
12 only necessary to remove and reposition or replace the applicator
13 roller 66, and wash-up the doctor blade assembly if changing from
14 ink to coating or vice versa. The capability to selectively
15 operate in either the flexographic mode or the lithographic mode
16 and to print or coat from either the plate or blanket position is
17 referred to herein as the "LITHOFLEX" process.

18 According to an important feature of the present
19 invention, the applicator head 60 is supported by the carriage
20 assembly 58 in a cantilevered, pivotal arrangement which allows
21 the dual cradle inking/coating apparatus 10 and single cradle
22 inking/coating apparatus 110 to be installed and used between any
23 two adjacent printing units, as well as installed on the first and
24 last printing units of the press. This is made possible by a pair
25 of cantilevered support arms 88, 90 which are pivotally coupled to
26 the side plates 74, 76, respectively, on a pivot shaft 77. Each
27 support arm has a hub portion 88A, 90A, respectively and an
28 elongated shank portion 88B, 90B, respectively. The elongated
29 shank portion extends transversely with respect to the shank
30 portion, and preferably extend perpendicularly with respect to
31 each other.

32 The cantilevered support arms are pivotally mounted on
33 the printing tower by pivot blocks 92, 94, respectively. The hub
34 portions 88A, 90A are journaled for rotation on pivot shafts 96,
35 98, respectively. The pivot blocks 92, 94 are securely fastened

1 to the tower 14D, so that the carriage assembly 86 is pivotally
2 suspended from the pivot shafts 96, 98 in a cantilevered Ferris
3 support arrangement. The shank portions 88B, 90B are pivotally
4 coupled to the pivot shaft 77, so that the carriage assembly 58
5 and the applicator head 60 are capable of independent rotation
6 with respect to each and with respect to the pivot shaft 77. By
7 this arrangement, the applicator head 60 is pivotally suspended
8 from the pivot shaft 77, and remains in an upright orientation as
9 the support arms rotate from the operative position to the fully
10 retracted position and vice versa.

11 Thus, the cradles 78, 80 and 82, 84 position the
12 applicator roller 66 in vertical and horizontal alignment with the
13 plate cylinder or blanket cylinder when the applicator head is
14 extended to the operative position. Moreover, because of the
15 transverse relationship between the hub portion and shank portion
16 of the support arms, the applicator head 60 and carriage assembly
17 58 are capable of rotating through a Ferris arc without touching
18 the adjacent tower. This makes it possible to install the
19 inking/coating apparatus 10 on any intermediate printing unit
20 tower (T2, T3), and as well as the first printing unit tower T1
21 and the last printing unit tower T4. Additionally, because of the
22 transverse relationship of the support arm hub portion and shank
23 portion, the lateral projection of the applicator head 60 into the
24 interstation space between printing units is minimized, thus
25 assuring virtually unrestricted operator access in the inter-
26 station space between adjacent printing units when the applicator
27 head is engaged in the operative position, and completely
28 unrestricted access when the applicator head is completely
29 retracted.

30 As shown in FIGURE 1 and FIGURE 2, rotation of the
31 carriage assembly 58 is counterclockwise from the retracted
32 position (shown in phantom) to the operative position. The
33 carriage assembly can be adapted for clockwise rotation from the
34 retracted position to the operative position for engagement of the
35 applicator roller to either the plate cylinder or the blanket

1 cylinder on the dampener side of the tower, assuming that access
2 to the plate and blanket is not restricted by dampener rollers or
3 the like.

4 Rotational movement of the support arms 88, 90 is
5 assisted by counterweights 100, 102 which are secured to the
6 support arms, respectively, for concurrent rotation with respect
7 to the pivot blocks 92, 94. With the passive assistance of the
8 counterweights, the press operator can easily move the ink-
9 ing/coating assembly 10 from the engaged operative position as
10 shown in FIGURE 4 to the fully retracted idle position as shown in
11 phantom in FIGURE 1. Preferably, rotation of the carriage
12 assembly 58 is assisted by power means such as a torsion spring,
13 electric motor, or hydraulic motor.

14 The inking/coating apparatus 10 is releasably locked
15 into the engaged position as shown in FIGURE 4 by releasable latch
16 couplings 103, 105 which secure the support arms 88, 90 to the
17 press side frames 14, 15, respectively, of the printing unit tower
18 T4 in the operative position. Coating engagement of the applica-
19 tor roller 66 against the blanket cylinder 34 is produced by power
20 actuators, preferably pneumatic cylinders 104, 106 which have
21 extendable/retractable power transfer arms 104A, 106A, respective-
22 ly. The pneumatic cylinder 104 is pivotally coupled to the
23 support arm 88 by a pivot linkage 108, and the second pneumatic
24 cylinder 106 is pivotally coupled to the support arm 90 by a pivot
25 linkage 109. In response to actuation of the pneumatic cylinders
26 104, 106, the power transfer arms are retracted. As the arms
27 retract, the inking/coating head 60 is rotated counterclockwise on
28 the pivot shaft 77, thus moving the applicator roller 66 into
29 coating engagement with the blanket cylinder 34.

30 The pivot linkage 108 includes a bell crank 111 which is
31 mounted for pivotal movement on a pin 113. The pin 113 is
32 supported by a clevis plate 115 which is attached to the support
33 arm 88. One end of the bell crank is pivotally coupled to the
34 actuator arm 104A, and a cam roller 117 is mounted for rotation on
35 its opposite end.

1 The cam roller 117 is engagable against an adjustable
2 stop 119 which is rigidly secured to the side plate 74. Counter-
3 clockwise shifting of the handle H moves a cam follower 121 into
4 a latch pocket 123 of a receiver block 125 as the cam roller 117
5 is moved into engagement with the adjustable stop 119 in the
6 interlocked, operative position. Referring to FIGURE 4, FIGURE 5
7 and FIGURE 6, the receiver block is rigidly secured to the
8 delivery side face of the printing unit tower by machine screws.

9 When the plate P goes on impression, power is applied to
10 the pneumatic actuator 104 and the power transfer arm 104A
11 retracts, thus causing the bell crank 111 to rotate counterclock-
12 wise about the pin 113. The torque applied by the actuator is
13 transmitted to the applicator head 60 through the cam roller 117
14 and the adjustable stop 119. Counterclockwise movement of the
15 applicator head 60 relative to the support shaft 77 carries the
16 applicator roller 66 into engagement with the plate P.

17 The adjustable stop 119 has a threaded bolt 119A which
18 is engagable with the cam roller 117. The striking point of
19 engagement is preset so that the applicator roller 66 is properly
20 positioned for engagement with the plate P or blanket B when the
21 applicator head 60 is interlocked with the press frame 14 and the
22 printing unit goes on impression.

23 Referring to FIGURE 5, an inking/coating apparatus 110
24 having a single head is illustrated. The construction of this
25 alternative embodiment is identical in all respects with the dual
26 head arrangement, with the exception that only a single gear train
27 and a single cradle for holding the applicator roller is provided.
28 In both embodiments, the inking/coating head 60 remains upright as
29 it swings through an arc, similar to the movement of a Ferris
30 wheel. Because of the upright orientation of the inking/coating
31 head 60 as it moves between the extended and retracted positions,
32 the usual platform spacing between printing unit towers provides
33 adequate clearance to permit extension and retraction of the
34 carriage assembly 58 without interference with operator access to
35 the printing units. This is a significant advantage in that it

1 permits the in-line inking/coating apparatus to operate effective-
2 ly in the interstation space between any adjacent printing units,
3 and without blocking or obstructing access to the cylinders of the
4 printing units when the inking/coating apparatus is in the fully
5 retracted position as indicated in FIGURE 1.

6 Moreover, when the in-line inking/coating apparatus is
7 in the fully retracted position, the applicator roller 66 is
8 conveniently positioned on the dampener side of the printing unit
9 for inspection, clean-up or removal. Additionally, the doctor
10 blade assembly is also conveniently positioned for inspection,
11 removal, adjustment or clean-up. The doctor blade reservoir and
12 coating circulation lines can also be cleaned while the printing
13 unit is running as well as when the press has been stopped for
14 change-over from one type of ink or coating to another.

15 When the inking/coating apparatus is used for applying
16 an aqueous ink or an aqueous coating material, the water component
17 on the freshly printed sheet S is evaporated by a high velocity,
18 hot air interstation dryer and high volume heat and moisture
19 extractor units 112 and 114, as shown in FIGURE 1, FIGURE 4 and
20 FIGURE 5. The dryer/extractor units 112 and 114 are oriented to
21 direct high velocity heated air onto the freshly printed/coated
22 sheet as it is transferred by the impression cylinder 36 and the
23 intermediate transfer cylinder 40. By this arrangement, the
24 freshly printed aqueous ink or coating is completely dry before
25 the sheet is overprinted in the next printing unit.

26 The high velocity, hot air dryer and high performance
27 heat and moisture extractor units 112, 114 utilize high velocity
28 air jets which scrub and break-up the moist air level which clings
29 to the surface of each freshly printed sheet. Within each dryer,
30 high velocity air is heated to a high temperature as it flows
31 across a resistance heating element within an air delivery baffle
32 tube. High velocity jets of hot air are discharged through
33 multiple airflow apertures through an exposure zone Z (FIGURE 4
34 and FIGURE 5) onto the freshly printed/coated sheet S as it is
35 transferred by the impression cylinder 36 and transfer cylinder

1 40, respectively. Each dryer assembly includes a pair of air
2 delivery dryer heads which are arranged in spaced, side-by-side
3 relation. The high velocity, hot air dryer and high performance
4 heat and moisture extractor units 112, 114 are preferably
5 constructed as disclosed in co-pending U.S. Patent Application
6 Serial No. 08/132,584, filed October 6, 1993, entitled "High
7 Velocity Hot Air Dryer", assigned to the assignee of the present
8 invention and which is incorporated herein by reference.

9 The high velocity, hot moisture-laden air displaced from
10 each printed sheet is extracted from the dryer exposure zone Z and
11 completely exhausted from the printing unit by the high volume
12 extractors. Each extractor head includes a manifold coupled to
13 the dryer heads and draws the moisture, volatiles and high
14 velocity hot air through a longitudinal gap between the dryer
15 heads. According to this arrangement, each printed sheet is dried
16 before it is run through the next printing unit.

17 The water-based inks used in flexographic printing dry
18 at a relatively moderate drying temperature provided by the
19 interstation high velocity hot air dryers/extractors 112, 114.
20 Because each freshly printed sheet is dried between each printing
21 unit, clarity and print quality are substantially improved since
22 the aqueous ink is dried at each printing unit before it enters
23 the next printing unit. Since the aqueous ink is dry before the
24 sheet enters the next printing unit, back-trapping on the blanket
25 of the next printing unit is completely eliminated. This
26 interstation drying arrangement makes it possible to print aqueous
27 inks such as metallic ink and opaque white ink at one printing
28 unit, and then overprint at the next printing unit.

29 Moreover, this arrangement permits the first printing
30 unit to be used as a coater in which an aqueous coating is applied
31 to low grade paper such as recycled paper to trap and seal in
32 lint, dust, spray powder and other debris and provide a smoother,
33 durable surface which is overprinted in the next printing unit.
34 An UV-curable coating can be applied over the first down over-
35 printed (aqueous) coating in the last printing unit. The first

1 down layer seals the surface of the low grade, rough substrate and
2 improves overprinted dot definition while preventing strike-
3 through and show-through.

4 Preferably, the applicator roller 66 is either metal or
5 ceramic when it is used for applying a coating material to the
6 blanket B on the cylinder 34. When the applicator roller 66 is
7 applied to the plate, it is preferably constructed as an anilox
8 roller having a resilient transfer surface for engaging a
9 flexographic printing plate. Suitable resilient roller surface
10 materials include Buna N synthetic rubber and EPDM (terpolymer
11 elastomer).

12 It will be appreciated that the inking/coating apparatus
13 10 is capable of applying a wide range of ink types, including
14 fluorescent (Day Glo), pearlescent, metallics (gold, silver and
15 other metallics), glitter, scratch and sniff (micro-encapsulated
16 fragrance), scratch and reveal, luminous, pressure-sensitive
17 adhesives and the like.

18 The press operator can eliminate the dampener roller
19 assembly altogether, and the inking/coating apparatus 10 can
20 selectively apply aqueous inks and coatings to a flexographic or
21 waterless printing plate and the blanket. Moreover, overprinting
22 of the aqueous inks and coatings can be carried out in the next
23 printing unit since the aqueous inks and coatings are completely
24 dried by the high velocity, hot air interstation dryer and high
25 volume heat and moisture extractor assembly of the present
26 invention.

27 The aqueous inks and coatings as used in the present
28 invention contain colored pigments and/or soluble dyes, binders
29 which fix the pigments onto the surface of the printed sheet and
30 waxes, defoamers and thickeners. Aqueous printing inks predomi-
31 nantly contain water as a solvent, diluent and/or vehicle. The
32 thickeners which are preferred include algonates, starch,
33 cellulose and its derivatives, for example cellulose esters or
34 cellulose ethers and the like. Coloring agents including organic
35 as well as inorganic pigments may be derived from dyes which are

1 insoluble in water. Also, the printing ink may contain water and
2 may be predominantly glycol or the like, with the pigment being
3 bound by an appropriate resin. When metallic inks are printed,
4 the cells of the anilox roller must be appropriately sized to
5 prevent the metal particles from getting stuck within the cells.
6 The cell size is critical, and for metallic gold ink, the anilox
7 roller should have a screen line count in the range of 175-300
8 lines per inch.

9 The inking/coating apparatus 10 can also apply UV-
10 curable inks and coatings. If UV-curable inks and coatings are
11 utilized, ultra-violet dryers/extractors are installed adjacent
12 the high velocity hot air dryer/extractor units 112, 114,
13 respectively.

14 Moreover, by utilizing the coating apparatus on the
15 first printing unit, a seal coating can be applied to trap lint,
16 spray powder, dust and other debris, and cover defects on lower
17 grade paper which will improve print quality, which can then be
18 overprinted on the next in-line printing unit.

19 It will be appreciated that the "LITHOFLEX" system
20 described herein makes it possible to selectively operate a
21 printing unit in either the flexographic printing mode or the
22 lithographic printing mode, while also providing the capability to
23 print or coat from either the plate or blanket position. The dual
24 cradle support arrangement of the present invention makes it
25 possible to quickly change over from inking/coating at the blanket
26 cylinder position to inking/coating at the plate cylinder position
27 with minimum press down-time, since it is only necessary to remove
28 and reposition or replace the applicator roller 66 while the
29 printing/inking apparatus is in the retracted position.

30 Moreover, the press operator may elect to spot or
31 overall coat with aqueous ink/coating from the plate for one job,
32 and then spot and/or overall coat from the blanket during the next
33 job. Since the doctor blade assembly can be flushed and washed-up
34 quickly and the applicator roller can be changed out quickly, it
35 is possible to spot coat or overall coat from the plate position

1 or the blanket position with aqueous inks or coatings during the
2 first press run and then spot coat or overall coat with UV-curable
3 inks or coatings from the plate position or from the blanket
4 position during the next press run. The inking/coating apparatus
5 is completely out of the way in the retracted position; conse-
6 quently, the doctor blade reservoir and supply lines may be
7 flushed and washed-up by automatic wash-up equipment while the
8 printing unit is printing another job.

9 The positioning of the applicator head and roller
10 assembly relative to the plate and blanket is repeatable to a pre-
11 determined, preset impression position. Consequently, no printing
12 unit adjustment or alteration is required, except for flushing the
13 doctor blade assembly and cleaning or replacing the applicator
14 roller to accommodate a different kind of ink or coating.
15 Although manual extension and retraction have been described in
16 connection with the exemplary embodiment, extension to the
17 operative position and retraction to a non-operative position can
18 be carried out automatically by hydraulic or electric motor
19 servomechanisms.

20 The cantilevered, Ferris wheel support arrangement
21 allows the inking/coating apparatus to operate effectively in the
22 interstation space between any adjacent printing units, as well as
23 on the first or last printing units of the press, without blocking
24 or obstructing the interstation space or restricting operator
25 access to the cylinders of any of the printing units.

26 Finally, because the inking/coating apparatus of the
27 present invention is mounted on a printing unit tower and is
28 extendable to the operative position without requiring adjustment
29 or alteration of the printing unit cylinders, it can be used for
30 applying ink or coating to the blanket cylinder of a rotary offset
31 web press, or to the blanket of a dedicated coating unit.

32 Although the present invention and its advantages have
33 been described in detail, it should be understood that various
34 changes, substitutions and alterations may be made herein without

- 1 departing from the spirit and scope of the present invention as
- 2 defined by the appended claims.

What is claimed is:

Sub A1

1. In a printing press of the type having side frame members forming a printing unit tower on which a plate cylinder and blanket cylinder are supported for rotation, the improvement comprising:

inking/coating apparatus for applying ink or coating material to a plate mounted on the plate cylinder or to a blanket mounted on the blanket cylinder when the inking/coating apparatus is in an operative position; and,

a carriage assembly including a support arm having a first end portion pivotally coupled to the printing unit tower and a second end portion pivotally coupled to the inking/coating apparatus, the carriage assembly being movable to an operative position in which the inking/coating apparatus is suspended laterally adjacent to the plate and blanket cylinders, and being movable to a retracted position in which the inking/coating apparatus is elevated with respect to the plate and blanket cylinders.

2. The invention as set forth in claim 1, wherein the inking/coating apparatus comprises:

a doctor blade assembly having a reservoir for receiving ink or liquid coating material;

an applicator roller coupled to the doctor blade assembly in fluid communication with the reservoir, the applicator roller being engagable with a printing plate on the plate cylinder or with a blanket on the blanket cylinder when the inking/coating apparatus is in the operative position.

3. The invention as set forth in claim 2, the applicator roller comprising:

an anilox roller having a resilient transfer surface.

4. The invention as set forth in claim 1, including a counterweight coupled to the support arm.

1 5. The invention as set forth in claim 1, further
2 comprising:

3 a power actuator pivotally coupled to the support
4 arm, the power actuator having a power transfer arm which is
5 extendable and retractable; and,

6 apparatus coupled to the power transfer arm for
7 converting extension or retraction movement of the power transfer
8 arm into pivotal movement of the inking/coating apparatus relative
9 to the support arm.

Sub A2
1 6. The invention as set forth in claim 5, in which the
2 movement converting apparatus comprises:

3 a bell crank plate having a first end portion
4 coupled to the power transfer arm and having a second end portion
5 for engaging a stop member;

6 a stop member secured to the inking/coating
7 apparatus; and,

8 a clevis plate secured to the support arm and
9 pivotally coupled to the bell crank plate.

1 7. The invention as set forth in claim 1, the
2 inking/coating apparatus comprising:

3 an applicator head having first and second side
4 frame members pivotally coupled to the carriage assembly;

5 a doctor blade assembly mounted between the first
6 and second side frame members, the doctor blade assembly including
7 a reservoir for receiving ink or liquid coating material;

8 cradle means mounted on the first and second side
9 frame members, respectively;

10 an applicator roller mounted for rotation on the
11 cradle means and coupled to the doctor blade assembly for rolling
12 contact with ink or coating material in the reservoir, the

13 applicator roller being engagable with a printing plate on the
14 plate cylinder or with a blanket on the blanket cylinder in the
15 operative position; and,

16 motor means coupled to the applicator roller for
17 rotating the applicator roller.

1 8. The invention as set forth in claim 7,
2 the cradle means including first and second sockets
3 disposed on the first and second side frame members respectively;
4 and,

5 the applicator roller being mounted for rotation on
6 the first and second sockets.

Sub 1
2 *A3* 9. The invention as set forth in claim 7,
the cradle means including first and second sockets
1 disposed on the first and second side frame members, respectively,
2 and third and fourth sockets disposed on the first and second side
3 frame members, respectively;

4 the applicator roller being mountable for rotation
5 on the first and second sockets for applying ink or coating
6 material to the plate when the carriage assembly is in the
7 operative position; and,

8 the applicator roller being mountable for rotation
9 on the third and fourth sockets for applying ink or coating
10 material to the blanket when the carriage assembly is in the
11 operative position.

1 10. The invention as set forth in claim 1, comprising:
2 male and female latch coupling members mounted on
3 the carriage assembly and on the printing unit tower, respective-
4 ly, for releasably latching the carriage assembly in interlocking
5 engagement with the printing unit tower in the operative position.

1 11. The invention as set forth in claim 1, wherein the
2 support arm comprises an elongated shank portion and a hub portion

3 which extends transversely with respect to the shank portion, the
4 elongated shank portion being pivotally coupled to the ink-
5 ing/coating apparatus and the hub portion being pivotally coupled
6 to the printing unit tower.

Sub A4

12. A sheet-fed, rotary offset printing press compris-
ing, in combination:

3 at least one printing unit or dedicated coating
4 unit having side frame members forming a tower;

5 at least one cylinder mounted for rotation on the
6 tower for printing ink or coating material onto sheets passing
7 through the printing unit or dedicated coating unit;

8 inking/coating apparatus including a doctor blade
9 assembly having a reservoir for holding ink or coating liquid, a
10 rotatable applicator roller and means for applying ink or coating
11 liquid from the reservoir onto a peripheral surface portion of the
12 applicator roller; and,

13 support apparatus mounted on the printing unit
14 tower for pivotal movement, said support apparatus being movably
15 coupled to the inking/coating apparatus for supporting the
16 inking/coating apparatus for movement to an operative position in
17 which the applicator roller is engagable with a plate or a blanket
18 on the cylinder, and for movement to a retracted position in which
19 the inking/coating apparatus is supported at an elevated position
20 above the cylinder.

13. A rotary offset printing press comprising, in
combination:

3 a plate cylinder having a printing plate mounted
4 thereon;

5 a blanket cylinder having an ink receptive blanket
6 disposed in ink transfer engagement with the plate cylinder for
7 transferring ink from the image surface areas of the printing
8 plate to the ink receptive blanket;

9 an impression cylinder disposed adjacent the
10 blanket cylinder thereby defining a nip between the impression
11 cylinder and the blanket whereby the printing ink is transferred
12 from the blanket to a substrate as the substrate is transferred
13 through the nip;

14 inking/coating apparatus for applying ink or
15 coating material to the plate or to the blanket;

16 support apparatus mounted on the printing press for
17 pivotal movement, said support apparatus being movably coupled to
18 the coating apparatus for supporting the inking/coating apparatus
19 for movement to an operative position in which the inking/coating
20 apparatus is engagable with the plate or the blanket, and for
21 movement to a retracted position in which the inking/coating
22 apparatus is supported at an elevated position above the press;
23 and,

24 a dryer mounted on the press for discharging heated
25 air on the freshly printed substrate.

1 14. A rotary offset printing press as defined in claim
2 13, wherein:

3 the dryer is mounted adjacent the impression
4 cylinder for discharging heated air onto a freshly printed
5 substrate while the substrate is in contact with the impression
6 cylinder.

1 15. A rotary offset printing press as defined in claim
2 13, comprising:

3 an extractor coupled to the dryer for extracting
4 hot air, moisture and volatiles from an exposure zone between the
5 dryer and the freshly printed substrate.

1 16. A rotary offset printing press as defined in claim
2 13, comprising:

3 a transfer cylinder disposed in an interstation
4 position on the press and coupled in sheet transfer relation with
5 the impression cylinder; and,
6 an interstation dryer disposed adjacent the
7 transfer cylinder for discharging heated air onto a freshly
8 printed or coated substrate after it has been transferred from the
9 impression cylinder and while it is in contact with the inter-
10 mediate transfer cylinder.

Sub A5
2

17. In a printing press of the type having side frame
members forming a tower on which a blanket cylinder is supported
for rotation, the improvement comprising:
inking/coating apparatus for applying ink or
coating material to a blanket mounted on the blanket cylinder when
the inking/coating apparatus is in an operative position; and,
a carriage assembly movably coupled to the tower
and to the inking/coating apparatus for producing Ferris wheel
movement of the inking/coating apparatus to the operative position
in which the inking/coating apparatus is suspended laterally
adjacent to the blanket cylinder, and to a retracted position in
which the inking/coating apparatus is elevated with respect to the
blanket cylinder.

18. The invention as set forth in claim 17, wherein the
tower includes a plate cylinder and a plate mounted on the plate
cylinder, the inking/coating apparatus including:

first cradle means for supporting an applicator
roller for engagement against the plate when the inking/coating
apparatus is in the operative position; and,

second cradle means for supporting an applicator
roller for engagement against the blanket when the inking/coating
apparatus is in the operative position.

1 19. The invention as set forth in claim 17, comprising:
2 said carriage assembly including a support arm
3 having a first end portion pivotally coupled to the tower and
4 having a second end portion;
5 a common pivot shaft on which the support arm
6 second end portion and the inking/coating apparatus are pivotally
7 mounted; and,
8 male and female latch members coupled between the
9 common pivot shaft and the tower, with one of the latch members
10 being secured to the common pivot shaft and the other latch member
11 being secured to the tower, the latch members being mateable in
12 interlocking engagement when the inking/coating apparatus is in
13 the operative position.

1 20. The invention as set forth in claim 17, further
2 comprising:
3 a power actuator pivotally coupled to the support
4 arm, the power actuator having a power transfer arm which is
5 extendable and retractable; and,
6 apparatus coupled to the power transfer arm for
7 converting extension or retraction movement of the power transfer
8 arm into pivotal movement of the inking/coating apparatus relative
9 to the common pivot shaft.

Sub A6
1 21. The invention as set forth in claim 20, in which
2 the movement converting apparatus comprises:
3 a bell crank plate having a first end portion
4 coupled to the power transfer arm and having a second end portion
5 for engaging a stop member;
6 a stop member secured to the inking/coating
7 apparatus; and,
8 a clevis plate secured to the support arm and
9 pivotally coupled to the bell crank plate.

1 22. The invention as set forth in claim 1, wherein the
2 inking/coating apparatus comprises:

3 an applicator roller having a resilient transfer
4 surface.

1 23. The invention as set forth in claim 1, wherein the
2 applicator roller is mounted for engagement to a plate in the
3 plate cylinder position, the applicator roller comprising an
4 anilox roller having a resilient transfer surface.

1 24. A method for rotary offset printing in a rotary
2 offset press of the type including first and second printing
3 units, and using aqueous or UV-curable printing ink or coating
4 material in the operation of at least the first printing unit,
5 comprising the following steps performed at each printing unit in
6 succession:

7 spot or overall coating with aqueous ink/aqueous
8 coating or UV-curable ink/UV-curable coating from the plate;

9 spot and/or overall coating the blanket with
10 aqueous ink/aqueous coating or UV-curable ink or UV-curable
11 coating from the blanket;

12 transferring the printing ink or coating from the
13 printing plate to the blanket;

14 transferring the printed image from the blanket to
15 a substrate as the substrate is transferred through the nip
16 between an impression cylinder and the blanket; and,

17 drying the ink or coating on the freshly printed
18 substrate before the substrate is processed in the second printing
19 unit.

1 25. A method for rotary offset printing as defined in
2 claim 24,

3 wherein the drying step is performed by discharging
4 hot air onto the freshly printed/coated substrate after it has
5 been transferred from the first printing unit and while it is

6 contact with an intermediate transfer cylinder, but before it is
7 processed in the second printing unit.

1 26. A method for rotary offset printing as defined in
2 claim 24,

3 wherein the drying step is performed by directing
4 high velocity, heated air onto the freshly printed/coated
5 substrate while the freshly printed/coated substrate is in contact
6 with an impression cylinder.

1 27. A method for rotary offset printing as defined in
2 claim 24, including the steps:

3 transferring the freshly printed substrate to an
4 intermediate transfer cylinder; and,

5 drying the freshly printed substrate while it is in
6 contact with the intermediate transfer cylinder.

1 28. A method for rotary offset printing as defined in
2 claim 24, including the step:

3 extracting hot air, moisture and volatiles from an
4 exposure zone above the freshly printed/coated substrate while the
5 freshly printed/coated substrate is in contact with the impression
6 cylinder.

1 29. A method for rotary offset printing as defined in
2 claim 24, including the steps:

3 applying a primer coating of an aqueous coating
4 material or UV-curable coating material to a substrate in the
5 first printing unit;

6 trapping and sealing dust, lint, spray powder and
7 other debris under the primer coating; and,

8 drying the primer coating on the substrate before
9 the substrate is overprinted in the second printing unit.

1 30. A method for rotary offset printing in a rotary
2 offset press of the type including first and second printing
3 units, and using aqueous or UV-curable printing ink/coating
4 material in the operation of at least the first printing unit
5 comprising the following steps performed at each printing unit in
6 succession:

7 transferring the printing ink/coating material to
8 a printing plate at the first printing unit;

9 transferring the printing ink/coating material from
10 the printing plate to a blanket;

11 transferring the printed image from the blanket to
12 a substrate as the substrate is transferred through the nip
13 between an impression cylinder and the blanket; and,

14 drying the printing ink on the freshly printed
15 substrate before the substrate is processed in the second printing
16 unit.

1 31. A method for rotary offset printing as defined in
2 claim 30,

3 wherein the drying step is performed by discharging
4 hot air onto the freshly printed substrate after it has been
5 transferred from the first printing unit and while it is in
6 contact with an intermediate transfer cylinder, but before it is
7 processed in the second printing unit.

1 32. A method for rotary offset printing as defined in
2 claim 30, wherein the drying step is performed by directing high
3 velocity, heated air onto the freshly printed substrate while the
4 freshly printed substrate is in contact with the impression
5 cylinder.

1 33. A method for rotary offset printing as defined in
2 claim 30, including the steps:

3 transferring the freshly printed substrate to an
4 intermediate transfer cylinder; and,

5 drying the freshly printed substrate while it is in
6 contact with the intermediate transfer cylinder.

1 34. A method for rotary offset printing as defined in
2 claim 30, including the step:

3 extracting hot air, moisture and volatiles from an
4 exposure zone above the substrate while the substrate is in
5 contact with the impression cylinder.

"RETRACTABLE INKING/COATING APPARATUS
HAVING FERRIS MOVEMENT BETWEEN PRINTING UNITS"

Abstract of the Disclosure

1 A retractable in-line inking/coating apparatus selec-
2 tively applies either spot or overall ink/coating to a blanket or
3 flexographic plate on a blanket cylinder or spot coating or
4 overall ink/coating to a flexographic printing plate on a plate
5 cylinder in a rotary offset printing press. The inking/coating
6 apparatus is pivotally mounted on the tower of a printing unit or
7 dedicated coating unit, and is extended into and retracted out of
8 inking/coating engagement by a carriage assembly which is
9 pivotally coupled to the printing unit tower. Because of the
10 pivotal support provided by a cantilevered support arm, the
11 inking/coating apparatus can be raised and lowered through a
12 Ferris wheel arc movement between adjacent printing units. The
13 aqueous component of the printing ink or coating is evaporated by
14 a high velocity, hot air interstation dryer and a high performance
15 heat and moisture extractor so that the ink on a freshly printed
16 sheet is dry before the sheet is printed on the next printing
17 unit. Thus, flexographic ink or coating applied at the first
18 printing unit can immediately be overprinted on subsequent
19 printing units.

* * * * *

DTG11976V0145DOC98012.APP

PATENT

JOINT
UTILITY

Attorney Docket
No. B6012

DECLARATION AND POWER OF ATTORNEY

We, RONALD M. RENDLEMAN, HOWARD W. DEMOORE, JOHN W. BIRD, joint inventors herein, hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

"RETRACTABLE INKING/COATING APPARATUS HAVING
FERRIS MOVEMENT BETWEEN PRINTING UNITS",

the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to in this declaration.

We each individually acknowledge the duty to disclose to the U.S. Patent Office all information known to me that is material to the patentability of any claim in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent.

We hereby claim foreign priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country

Application No.

Filing Date
(day, month, year)

- NONE -

We hereby claim the benefit under Title 35, United

States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>U.S. Serial No.</u>	<u>U.S. Filing Date</u>	<u>Status</u>
------------------------	-------------------------	---------------

- NONE -

We hereby appoint DENNIS T. GRIGGS, Registration No. 27,790, of the firm of AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P., our attorney to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. We request that all correspondence be addressed to:

Dennis T. Griggs
Akin, Gump, Strauss, Hauer & Feld, L.L.P.
1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4618

Phone: 214/969-2747

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

Full name of first joint Inventor: Ronald M. Rendleman 1-00

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Residence: Carrollton, Texas

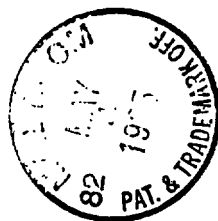
Citizenship: U.S. TX

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Carrollton, Texas 75007

Date: May 1, 1995

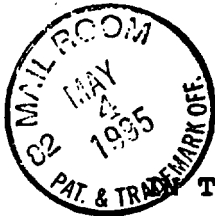
John W. Bird
John W. Bird

THE "MAGNET"



Attorney Docket No.

B6012



SMALL ENTITY
INDEPENDENT INVENTOR

THE UNITED STATES PATENT AND TRADEMARK OFFICE

**DECLARATION CLAIMING SMALL ENTITY STATUS
(37 C.F.R. §1.9(f) and §1.27 (b)) - INDEPENDENT INVENTOR**

I, RONALD M. RENDLEMAN, hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. §1.9(c) for the purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the U.S. Patent and Trademark Office with regard to the invention entitled

**"RETRACTABLE INKING/COATING APPARATUS HAVING
FERRIS MOVEMENT BETWEEN PRINTING UNITS"**

X in the application filed herewith.

_____ in U.S. application Serial No. _____ filed
_____.

_____ patent No. _____, issued _____.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. §1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or a non-profit organization under 37 C.F.R. §1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under obligation under contract or law to assign, grant, convey, or license any rights in the invention is identified below:

_____ no such person, concern or organization exists.

X any such person, concern or organization is identified below, if applicable:

Full Name Howard W. DeMoore

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Dallas, Texas 75220

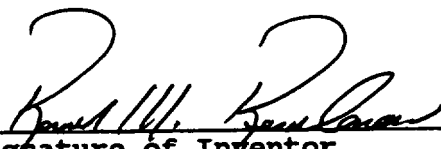
☒ individual ☐ small business concern
☐ nonprofit organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to 37 C.F.R. §1.28(b).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Printed Name of Inventor: Ronald M. Rendleman

Date: 5/1/95


Signature of Inventor



Attorney Docket No.

B6012

SMALL ENTITY
INDEPENDENT INVENTOR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION CLAIMING SMALL ENTITY STATUS
(37 C.F.R. §1.9(f) and §1.27 (b)) - INDEPENDENT INVENTOR

I, HOWARD W. DEMOORE, hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. §1.9(c) for the purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the U.S. Patent and Trademark Office with regard to the invention entitled

"RETRACTABLE INKING/COATING APPARATUS HAVING
FERRIS MOVEMENT BETWEEN PRINTING UNITS"

X in the application filed herewith.

_____ in U.S. application Serial No. _____ filed
_____.

_____ patent No. _____, issued _____.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. §1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or a non-profit organization under 37 C.F.R. §1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under any obligation under contract or law to assign, grant, convey, or license any rights in the invention is identified below:

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 individual X small business concern

 nonprofit organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to 37 C.F.R. §1.28(b).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Printed Name of Inventor: Howard W. DeMoore

Date: May, 1995

Howard W. DeMoore
Signature of Inventor



Attorney Docket No.

B6012

SMALL ENTITY
INDEPENDENT INVENTOR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION CLAIMING SMALL ENTITY STATUS
(37 C.F.R. §1.9(f) and §1.27 (b)) - INDEPENDENT INVENTOR

I, JOHN W. BIRD, hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. §1.9(c) for the purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the U.S. Patent and Trademark Office with regard to the invention entitled

"RETRACTABLE INKING/COATING APPARATUS HAVING
FERRIS MOVEMENT BETWEEN PRINTING UNITS"

X in the application filed herewith.

___ in U.S. application Serial No. _____ filed
_____.

___ patent No. _____, issued _____.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. §1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or a non-profit organization under 37 C.F.R. §1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under any obligation under contract or law to assign, grant, convey, or license any rights in the invention is identified below:

___ no such person, concern or organization exists.

X any such person, concern or organization is identified below, if applicable:

Full Name Howard W. DeMoore

Address 10954 Shady Trail

Dallas, Texas 75220

X individual small business concern

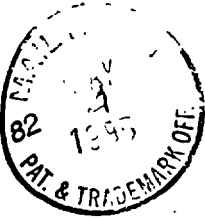
 nonprofit organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to 37 C.F.R. §1.28(b).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Printed Name of Inventor: John W. Bird

Date: May 1, 1995 John W. Bird
Signature of Inventor



Attorney Docket No.

B6012

**SMALL ENTITY
SMALL BUSINESS CONCERN**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL
ENTITY STATUS (37 C.F.R. §1.9(f) and §1.27(c))--
SMALL BUSINESS CONCERN**

I, HOWARD W. DEMOORE

hereby declare that I am

 the owner of the small business concern identified below:

 X an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN Printing Research, Inc.

ADDRESS OF CONCERN 10954 Shady Trail

Dallas, Texas 75220

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 C.F.R. §121.3-18, and reproduced in 37 C.F.R. §1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when, either directly or indirectly, one concern controls or has the power to control the other, or a third-party or parties controls or has the power to control both.

I hereby declare that rights under license, contract or law have been acquired by or conveyed to and remain with the small business concern identified above with regard to the invention entitled

**"RETRACTABLE INKING/COATING APPARATUS HAVING
FERRIS MOVEMENT BETWEEN PRINTING UNITS"**

by inventors Ronald M. Rendleman, Howard W. DeMoore and
John W. Bird

as described in

☒ the specification filed herewith.
☐ the specification filed _____ under Serial
No. _____.
☐ Patent No. _____, issued _____.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 C.F.R. §1.9(d) or by any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or a nonprofit organization under 37 C.F.R. §1.9(e).

☒ no such person, concern or organization exists
☐ any such person, concern or organization is identified below, if applicable:

Full Name _____

Address _____

_____ individual _____ small business concern
_____ nonprofit organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 C.F.R. §1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or

imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

TYPED NAME OF PERSON SIGNING Howard W. DeMoore

TITLE OF PERSON OTHER THAN OWNER President and Chairman of
the Board

Date: 1 May 1975

Howard W. DeMoore
Signature

B 6012
 RONALD M. RENDLEMAN
 HOWARD W. DEMORE
 JOHN W. BIRD

08 435798

101
 177
 105

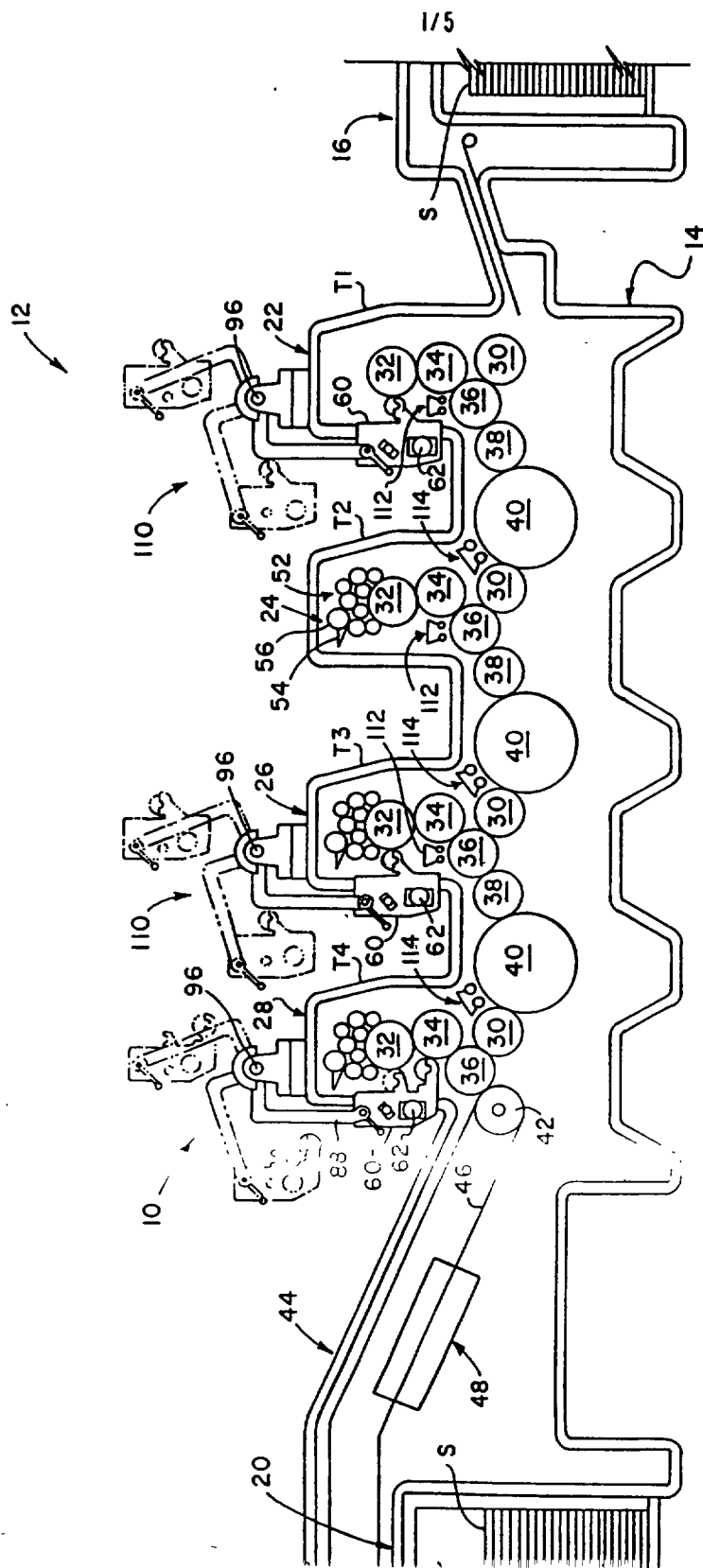


FIG. 1



TO: "STATION"

W001405

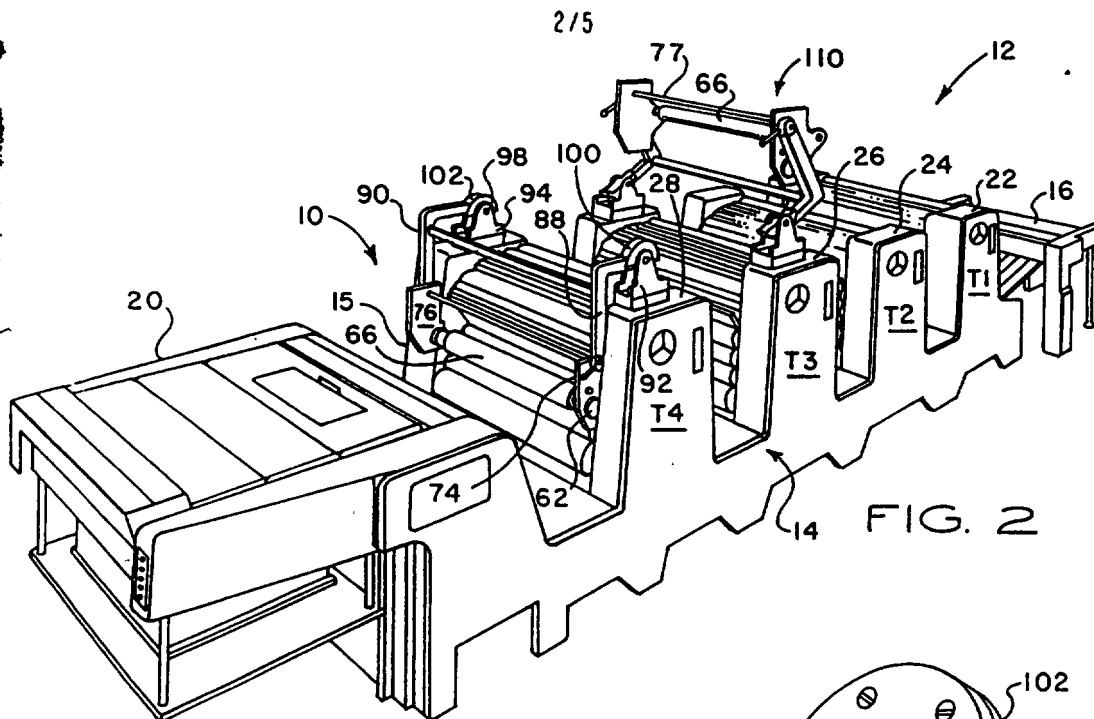


FIG. 2

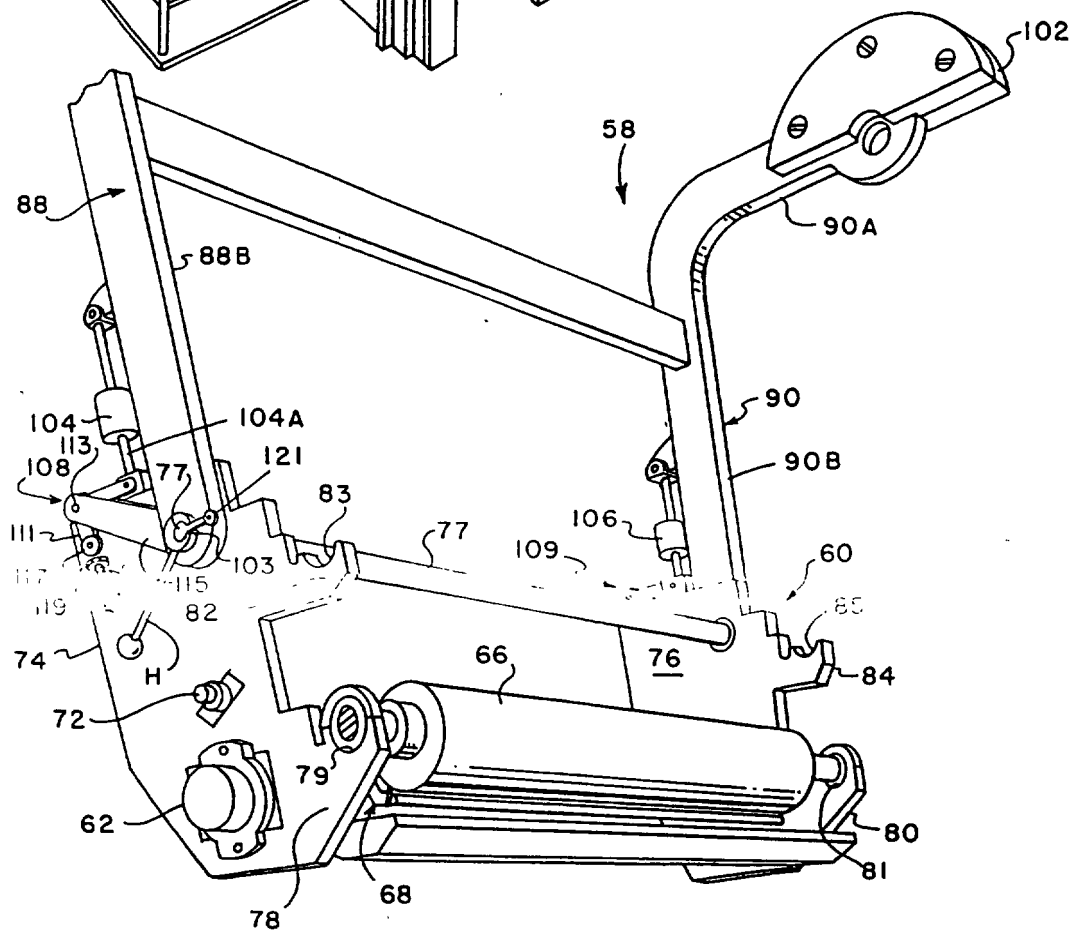


FIG. 3



034300 020741

W001407

3/5

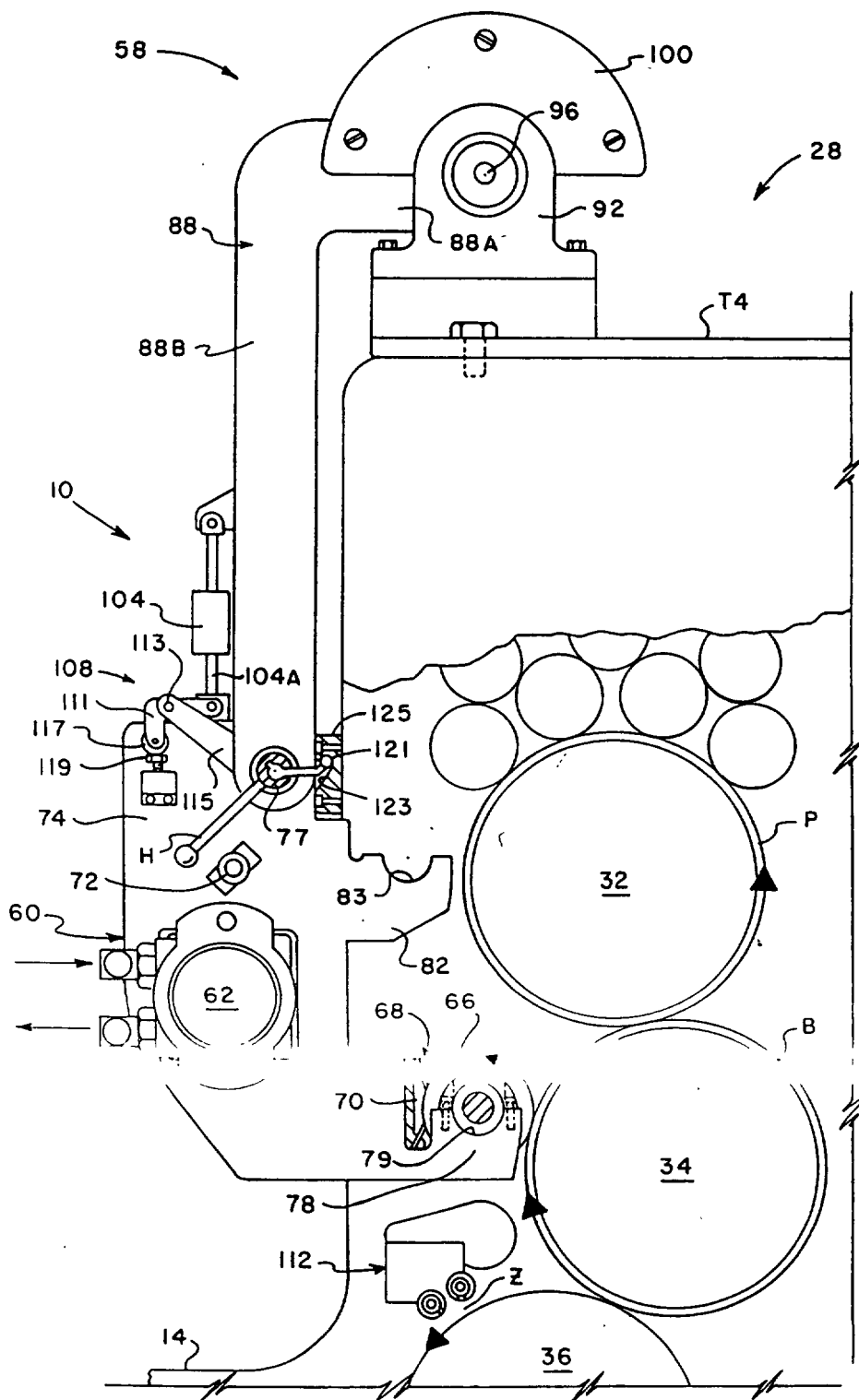
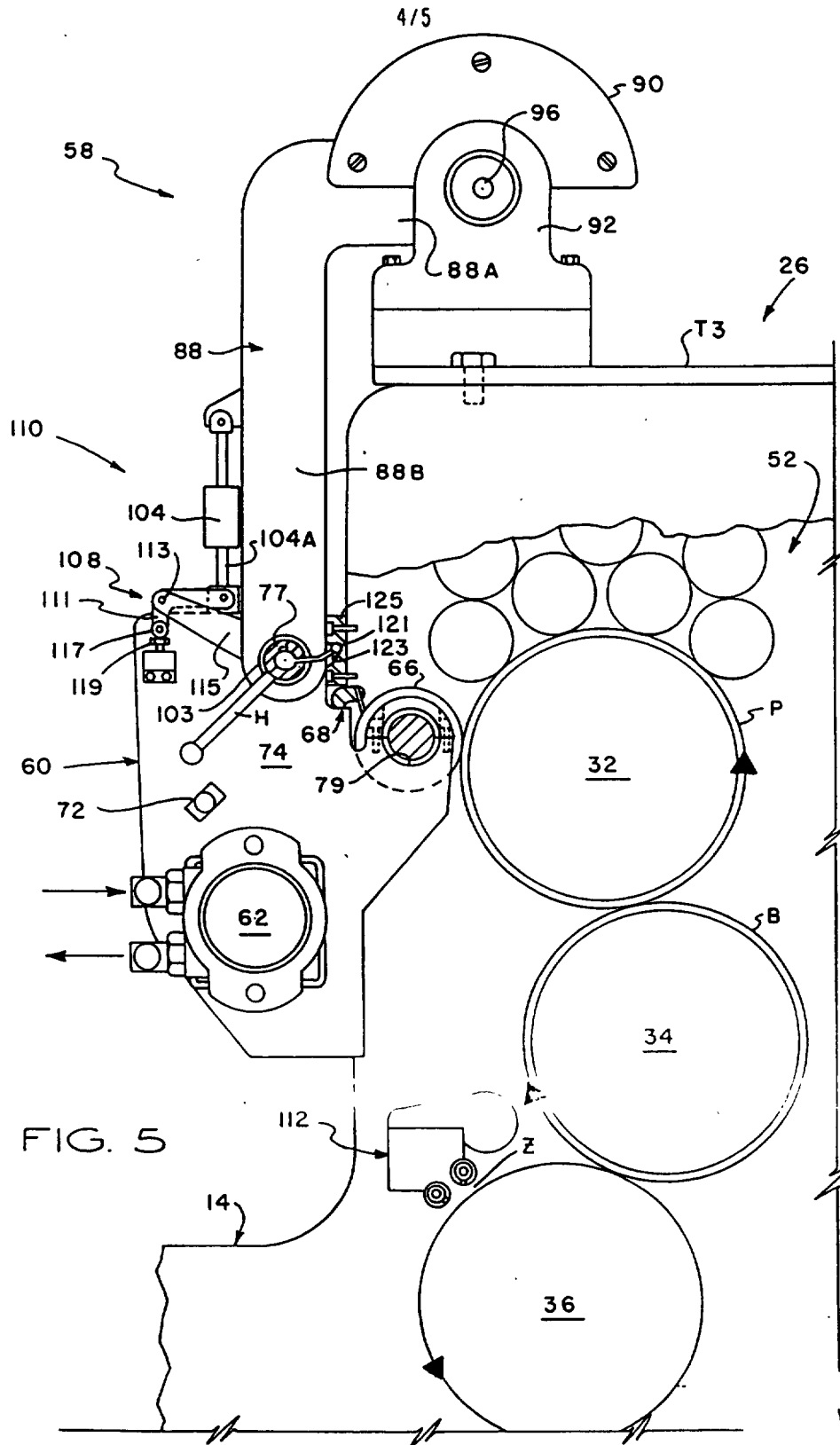


FIG 4



1995-05-04

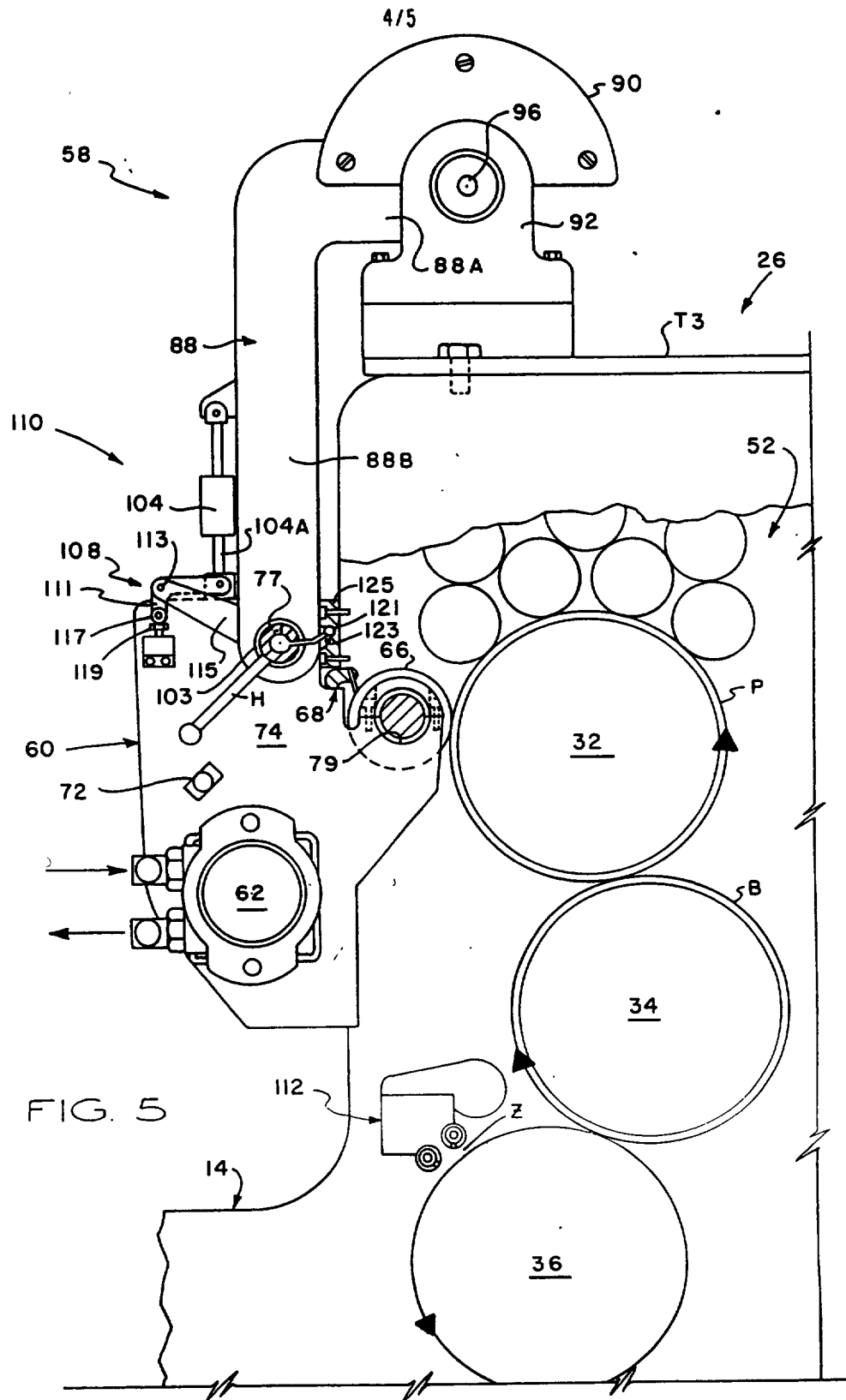
W061409





TOP SECRET

W001411



THE UNIVERSITY OF CHICAGO

0034790-0001
T02309067760

June 1994

S	M	T	W	T	F	S
				1	2	3
				4	5	6
	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May 1994

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

July 1994

S	M	T	W	T	F	S
						1
						2
	3	4	5	6	7	8
	9	10	11	12	13	14
	15	16	17	18	19	20
	21	22	23	24	25	26
	27	28	29	30		



POCKET DAY-TIMER
STYLE C21

$\Delta \pi$ EXHIBIT 3B
Deponent Bird
Date 11/20/00 Rptr. IC
WWW.DEPOBOOK.COM

W003659

Wk 22 • Day 155, 210 Left		SATURDAY JUNE 4, 1994	
DIARY AND WORK RECORD			
HRS	NAME OR PROJECT	DESCRIPTION	TR
8 0800	GEC.		
9 0900			
10 1000			
11 1100			
12 1200			
1 1300			
2 1400			
3 1500			
4 1600			
5 1700			

0600-0800

Day 156, 209 Left		SUNDAY JUNE 5, 1994
DIARY AND WORK RECORD		
TIME	NAME OR PROJECT	DESCRIPTION
8:00-9:00	GEC	
9:00-10:00		
10:00-11:00		
11:00-12:00		
12:00-13:00		
13:00-14:00		
14:00-15:00		
15:00-16:00		
16:00-17:00		
17:00-18:00		

W003661

JUNE 6, 1994

DIARY AND WORK RECORD

IRS	NAME OR PROJECT	DESCRIPTION	TIME
8	GEC		
9			
10			
11			
12			
1			
2			
3			
4			
5			

W003662

TOP SECRET

TUESDAY

JUNE 7, 1994

APPOINTMENTS & SCHEDULED EVENTS

RS NAME PLACE SUBJECT

CenHi

UV - Flexo

All information

Central Impression

TO BE DONE TODAY (ACTION LIST)

HV/UV.

EXPENSE & REIMBURSEMENT RECORD:

DATE OF EXPENSE DATE OF REIMBURSEMENT BY WHOM REIMBURSED AMOUNT

W003663

30

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
8	GEC		
9	Dr. Spiegel		
10	Mr. Filsinger		
11	Mr. Zucke		
12			
1			
2			
3			
4			
5			

30

DIARY AND WORK RECORD

RS	NAME OR PROJECT	DESCRIPTION	TIME
8		QEC	
9			
10			
11			
12			
1			
2			
3			
4			
5			

[illegible]

W003665

THURSDAY
JUNE 9, 1994

APPOINTMENTS & SCHEDULED EVENTS

RS	NAME	PLACE	SUBJECT
----	------	-------	---------

TO BE DONE TODAY (ACTION LIST)

Marlene - Business Cards

EXPENSE & REIMBURSEMENT RECORD:

am	Where?	Purpose And	By whom	Reimbursed?	Amount
Am't	Location?	What received?	paid?	By whom?	

W003666

30

HRS	NAME OR PROJECT	DESCRIPTION	TIME
8		GEC	
9			
10	SC	Electra	
11			
12			
1			
2	SC	Electra	
3		UN. MAN 370 plitters	
4		56" y color 110-120V	
5		Line (Baldwin 186 pline)	
		Call Helmut for	
		approx. pricing	

W003667

30

HRS	NAME OR PROJECT	DESCRIPTION	TITLE
8	GEC		
9	BSA Rapida 72K		
10			
11			
12			
1			
2			
3			
4			
5			

Variable	Mean	SD
Age	24.5	3.2
Sex		
Male	55.0	
Female	45.0	
Marital status		
Single	60.0	
Married	40.0	
Education		
High school	30.0	
College	40.0	
Postgraduate	30.0	
Occupation		
Student	50.0	
Employee	30.0	
Self-employed	20.0	
Unemployed	10.0	
Income		
Low	40.0	
Medium	30.0	
High	30.0	
Health status		
Good	60.0	
Fair	30.0	
Poor	10.0	
Smoking status		
Smoker	30.0	
Nonsmoker	70.0	
Alcohol consumption		
Frequent	20.0	
Occasional	30.0	
Never	50.0	
Exercise frequency		
Daily	10.0	
Weekly	20.0	
Monthly	30.0	
Never	40.0	
Stress level		
Low	20.0	
Medium	30.0	
High	50.0	
Sleep quality		
Good	40.0	
Fair	30.0	
Poor	30.0	
Dietary habits		
Balanced	30.0	
Unbalanced	70.0	
Family size		
Small	40.0	
Medium	30.0	
Large	30.0	
Religious beliefs		
Religious	50.0	
Secular	50.0	

W003669

30

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
-----	-----------------	-------------	------

8 0800
9 0900
10 1000
11 1100
12 1200
1 1300
2 1400
3 1500
4 1600
5 1700

S.W. GRAPHICS

W003670

Wk 24 • Day 188, 197 Left

FRIDAY
JUNE 17, 1994

30

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
8	S.W. GRAPHICS		
9	PHIL WILLY - 740-8746		
	JANET - TRAD		
	Steve needs E.T.		
10			
11			
12			
1			
2			
3			
4			
5			

W003671

30

DIARY AND WORK RECORD

DIARY AND WORK RECORD		
HRS.	NAME OR PROJECT	DESCRIPTION
8 ⁰⁰ 1000	S.W. GRAPHICS	
9 ⁰⁰ 1000		
10 ⁰⁰ 1000		
11 ⁰⁰ 1100		
12 ⁰⁰ 1200		
1 ⁰⁰ 1300		
2 ⁰⁰ 1400		
3 ⁰⁰ 1500		
4 ⁰⁰ 1600		
5 ⁰⁰ 1700		

TOP SECRET

Wk 25 • Day 171, 194 Left		MONDAY JUNE 20, 1994	30
DIARY AND WORK RECORD			
HRS	NAME OR PROJECT	DESCRIPTION	TIME
8		CORRUGATED '94	0800
9		INFRINGERS	0900
		SCM - technology	
10		United - Self	1000
		EMBA - IVS	
11		CvIR. - IRT	1100
		Langston - straightcopy	
12		Self	1200
1			1300
2			1400
3			1500
4			1600
5			1700

W003673

WEDNESDAY
JUNE 22, 1994

APPOINTMENTS & SCHEDULED EVENTS

IRS NAME PLACE SUBJECT

Myer Rutherford
United.

Chadwick

TO BE DONE TODAY (ACTION LIST)

8⁴⁰ C1 Res

HV x 7 + 1 final

2.5 metres wide

2794 mm. Side form
- Side "

300 metres/min

100 - 400 GSM.

Kraft liner and

Clay. < 30 gm

30% solids inks.

EXPENSE & REIMBURSEMENT RECORD:

Where? Purpose Why? To whom? Reimbursed? Amount?

28KW per unit x 7.

4 x 28KW Post or

4 x Lamp UV.

W003675

30

DIARY AND WORK RECORD

Table 1. Continued	
Variable	Mean (SD)
Age (years)	65.5 (10.5)
Gender	
Male	50.0
Female	50.0
Marital status	
Married	50.0
Single	50.0
Divorced	50.0
Widowed	50.0
Education (years)	12.5 (2.5)
Income (USD/month)	1,200 (300)
Health status	
Good	50.0
Fair	50.0
Poor	50.0
Smoking status	
Smoker	50.0
Non-smoker	50.0
Alcohol consumption	
Drinker	50.0
Non-drinker	50.0
Comorbidities	
Hypertension	50.0
Diabetes	50.0
Heart disease	50.0
Stroke	50.0
Chronic kidney disease	50.0
Chronic liver disease	50.0
Chronic lung disease	50.0
Chronic pain	50.0
Chronic mental health issues	50.0
Chronic medication use	50.0
Chronic hospitalization	50.0
Chronic disability	50.0
Chronic social isolation	50.0
Chronic financial stress	50.0
Chronic physical stress	50.0
Chronic emotional stress	50.0
Chronic cognitive stress	50.0
Chronic behavioral stress	50.0
Chronic environmental stress	50.0
Chronic cultural stress	50.0
Chronic religious stress	50.0
Chronic political stress	50.0
Chronic economic stress	50.0
Chronic technological stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0
Chronic environmental health stress	50.0
Chronic cultural health stress	50.0
Chronic religious health stress	50.0
Chronic political health stress	50.0
Chronic economic health stress	50.0
Chronic technological health stress	50.0
Chronic environmental health stress	50.0
Chronic social health stress	50.0
Chronic mental health stress	50.0
Chronic physical health stress	50.0
Chronic cognitive health stress	50.0
Chronic behavioral health stress	50.0

W003676

APPOINTMENTS & SCHEDULED EVENTS

$< 500 \text{ MPa}$ or $< 700 \text{ feet/sec}$
or $< 200 \text{ knots/sec}$

 ~~$< 3,000 \text{ CFM}$ or $< 100 \text{ CFM}$~~

2504 11/24/06 70017/5
2504 11/24/06

✓ Bill Wilson, 7 Langston
~~Steve Risch, 1 Stalling~~

SHS -
2' Bank 2 metres 5 color
HV + UV
Vacuum transfer
500 mm.

Item What?	Where? Duration?	Purpose Who What involved?	To Whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

Senna -

W003677

TUESDAY

THURSDAY		30
Wk 25 • Day 174, 191 Left		JUNE 23, 1994
DIARY AND WORK RECORD		
HRS	NAME OR PROJECT	DESCRIPTION
8	C 94	
9	30 Belst	
10	1.6 metres / 2 metres	
	UV and HV	
	+ Dimensions	
11	Texo - SRL	
	Need HV offer	
12	Have vacuum and pull	
	roll design	
1	45 - Cal Meisen	
	Std. Exid Cut on	
2	TCY - Send Proposal HV?	
3	3 color 2.7mm wide	
	with die cutter	
4	Piemonte Mec	
	1040 2 Print units Flexo Slitter	
	2.4met 900mm x 1.6m Folder	
5	90 - Peter Chadwick FIA	
	Hall 3	

W003678

FRIDAY
JUNE 24, 1994

APPOINTMENTS & SCHEDULED EVENTS

HRS	NAME	PLACE	SUBJECT
-----	------	-------	---------

~~YSF MILITARY AM.~~

~~SERRA HALL 2.~~

~~Don't end 12th~~

Rapidex - 2561 - Sumca

~~CORPAC 1472~~

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose-Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
---------------	---------------------	-------------------------------	------------------	-------------------------	--------

W003679

**FRIDAY
JUNE 24, 1994**

30

DIARY AND WORK RECORD

HRS	NAME OR PROJECT	DESCRIPTION	TIME
-----	-----------------	-------------	------

C 94

-30 Sun Automation.
 Al Lindsey - Hall 1
 information and Meet later.
 -30 Curran - Hall 2.
 Target Send proposal and specifications
 -30 Isaac Hall 3.

- 30 ISENIA - HALL

30 Demand - Needs to know smallest aperture to install
30 Carport.
2 metres 2 color DeCutter

Serra Hall 3 Ramon
Prices HV Serra

SATURDAY
JUNE 25, 1994

APPOINTMENTS & SCHEDULED EVENTS

HRS	NAME	PLACE	SUBJECT
-----	------	-------	---------

YSF Mr. LIN.


TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Date	Where?	Purpose Who	To whom	Reimbursed?	Amount
Month	City	What received?	Paid?	By whom?	

W003681

SATURDAY
JUNE 25, 1994
30

 Wk 25 • Day 178, 189 Left

DIARY AND WORK RECORD

	-RS	NAME OR PROJECT	DESCRIPTION	TIME
	8 ¹² 8 ²⁴ 8 ³⁶ 8 ⁴⁸	C.'94		
	9 ¹² 9 ²⁴ 9 ³⁶ 9 ⁴⁸			
	10 ¹² 10 ²⁴ 10 ³⁶ 10 ⁴⁸			
	11 ¹² 11 ²⁴ 11 ³⁶ 11 ⁴⁸			
	12 ¹² 12 ²⁴ 12 ³⁶ 12 ⁴⁸			
	1 ¹² 1 ²⁴ 1 ³⁶ 1 ⁴⁸			
	2 ¹² 2 ²⁴ 2 ³⁶ 2 ⁴⁸			
	3 ¹² 3 ²⁴ 3 ³⁶ 3 ⁴⁸			
	4 ¹² 4 ²⁴ 4 ³⁶ 4 ⁴⁸			
	5 ¹² 5 ²⁴ 5 ³⁶ 5 ⁴⁸			

MONDAY
JUNE 27, 1994

APPOINTMENTS & SCHEDULED EVENTS

HRS	NAME	PLACE	SUBJECT
-----	------	-------	---------

Ed - 826

D3 - 830

TO BE DONE TODAY (ACTION LIST)

Steve - 834

Jim - 881

EXPENSE & REIMBURSEMENT RECORD:

What?	Where? Duration?	Purpose Who What involved?	To whom Paid?	Reimbursed? By whom?	Amount
-------	---------------------	-------------------------------	------------------	-------------------------	--------

004496-030001

W003683

10/27/94

MONDAY 30	
Wk 26 • Day 178, 187 Left	
JUNE 27, 1994	
DIARY AND WORK RECORD	
HRS	NAME OR PROJECT DESCRIPTION TIME
8	EUROPEAN S.C.
9	< 500 mph or
10	< 700 feet per second
11	or
12	< 50 mph or 100 ft/sec
1	< 700 CFM or 25 CHM
2	< 3000 CFM or 100 CHM
3	
4	
5	

W063684

Wk 26 • Day 179 186 Left

TUESDAY
JUNE 28, 1994

30

DIARY AND WORK RECORD

RS	NAME OR PROJECT	DESCRIPTION	TIME
8	EUROPEAN S.C.		
9			
10			
11			
12			
1			
2			
3			
4			
5			

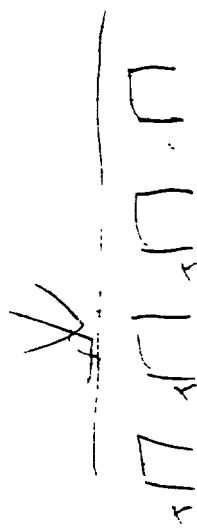
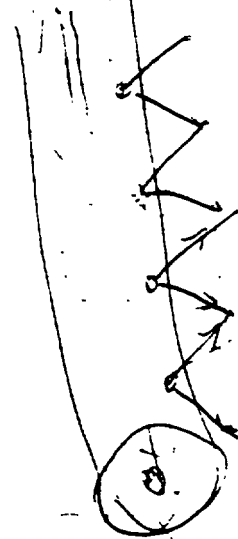
W003685

TO: 100-200000

NOTES & MEMOS

NEAR

< 200 m
< 1000'



[illegible]

JUNE 1994

NOTES

W003687

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY

**J 1
U 9
L 9
Y 4**

NOTES

$\Delta \pi$ EXHIBIT 38A

Deponent Bird

Date 11/20/00 Rptr. sc

WWW.DEPOBOOK.COM

30

June 1994

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26	27	28	29	30		

May 1994

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29	30	31				

July 1994

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24	25	26	27	28	29	30



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STYLE C21

June 1994

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Company _____

Address _____

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IN UNITED KINGDOM
DAY-TIMERS (U.K.), Ltd.
 Fortress Grove, Fortress Road, London, England NW5 2HW

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DAY-TIMERS Pty., Ltd.
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DAY-TIMERS, Ltd.
 BNZOPA Building, 137 Armagh Street, Christchurch

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1993						
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
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WEDNESDAY
JUNE 1, 1994
APPOINTMENTS & SCHEDULED EVENTS

Wk. 22 • Day 152, 213 Left
DIARY AND WORK RECORD

WEDNESDAY
JUNE 1, 1994
30

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

DATE	TIME	NAME	PLACE	SUBJECT	HRS	NAME OR PROJECT	DESCRIPTION
12/21	10:00				8		
12/21	10:00				9		
12/21	10:00				10		
12/21	11:00				11		
12/21	12:00				12		
12/21	13:00				1		
12/21	14:00				2		
12/21	15:00				3		
12/21	16:00				4		
12/21	17:00				5		

THURSDAY
JUNE 2, 1994
APPOINTMENTS & SCHEDULED EVENTS

THURSDAY
JUNE 2, 1994
30
Wk 22 • Day 153, 212 Left
DIARY AND WORK RECORD

TO BE DONE TODAY (ACTION LIST)

NAME	PLACE	SUBJECT	HRS	NAME OR PROJECT	DESCRIPTION	TIME
			8			
			9			
			10			
			11			
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FRIDAY
JUNE 3, 1984

APPOINTMENTS & SCHEDULED EVENTS

NAME PLACE SUBJECT

WK 22 • Day 154, 211 Left

DIARY AND WORK RECORD

DESCRIPTION

FRIDAY
JUNE 3, 1984

30

TO BE DONE TODAY (ACTION LIST)

Item	When?	Where?	What Involved?	To whom	Reimbursed?	By whom?	Amount	HRS	NAME OR PROJECT	DESCRIPTION	TIME
1	1200h							1			
2	1400h							2			
3	1500h							3			
4	1600h							4			
5	1700h							5			
6								6			
7								7			
8								8			
9								9			
10								10			
11								11			
12								12			

**SATURDAY
JUNE 4, 1994
APPOINTMENTS & SCHEDULED EVENTS**

NAME _____ PLACE _____ SUBJECT _____ HRS _____ WK 22 • Day 155, 210 Left **DIARY AND WORK RECORD** SATURDAY **30**
JUNE 4, 1994

TO BE DONE TODAY (ACTION LIST)

Item What?	Where? Duration?	Purpose Who What Involves?	To whom Paid?	Reimbursed? By whom?	Amount	NAME OR PROJECT	DESCRIPTION	T/Y
1	12				1300.48			
2	12				1400.48			
3	12				1500.48			
4	12				1600.48			
5	12				1700.48			
6	12							
7	12							
8	12							
9	12							
10	12							
11	12							
12	12							

C.E.C.

SUNDAY
JUNE 5, 1994
APPOINTMENTS & SCHEDULED EVENTS

NAME PLACE SUBJECT

HRS

Day 156, 209 Left
DIARY AND WORK RECORD
 NAME OR PROJECT DESCRIPTION

30
 T.M.

TO BE DONE TODAY (ACTION LIST)

1	0800-09	8	9 E C
2	0900-10	9	
3	1000-11	10	
4	1100-12	11	
5	1200-13	12	
6	1300-14	1	
7	1400-15	2	
8	1500-16	3	
9	1600-17	4	
10	1700-18	5	

EXPENSE & REIMBURSEMENT RECORD:

Item Where? Purpose Who? To whom? Reimbursed? Amount

MONDAY

JUNE 6, 1994

APPOINTMENTS & SCHEDULED EVENTS

WK 23 • Day 157, 208 Left

DIARY AND WORK RECORD

MONDAY

30

NAME

PLACE

SUBJECT

TIME

DATE

NAME OR PROJECT

DESCRIPTION

TIME

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item

Where?

Duration?

Purpose? Who?

To whom?

Amount

Item	Where?	Duration?	Purpose? Who?	To whom?	Amount
1					100.48
2					100.48
3					100.48
4					100.48
5					100.48
6					100.48
7					100.48
8					100.48
9					100.48
10					100.48
11					100.48
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24					100.48
25					100.48
26					100.48
27					100.48
28					100.48
29					100.48
30					100.48

WEDNESDAY
JUNE 8, 1994
APPOINTMENTS & SCHEDULED EVENTS

Wk 23 • Day 159, 208 Left
DIARY AND WORK RECORD
WEDNESDAY
JUNE 8, 1994
30

TO BE DONE TODAY (ACTION LIST)

Item What?	Where? Duration?	Proposed What Incurred?	To whom Paid?	From whom By whom?	Amount	NAME OR PROJECT	DESCRIPTION	T/L
					1200 ⁰⁰	12		
					1000 ⁰⁰	10		
					1100 ⁰⁰	11		
					1200 ⁰⁰	12		
					1300 ⁰⁰	13		
					1400 ⁰⁰	14		
					1500 ⁰⁰	15		
					1600 ⁰⁰	16		
					1700 ⁰⁰	17		
					1800 ⁰⁰	18		
					1900 ⁰⁰	19		
					2000 ⁰⁰	20		
					2100 ⁰⁰	21		
					2200 ⁰⁰	22		
					2300 ⁰⁰	23		
					2400 ⁰⁰	24		
					2500 ⁰⁰	25		
					2600 ⁰⁰	26		
					2700 ⁰⁰	27		
					2800 ⁰⁰	28		
					2900 ⁰⁰	29		
					3000 ⁰⁰	30		

qec

THURSDAY
JUNE 9, 1994

APPOINTMENTS & SCHEDULED EVENTS

WK 23 • Day 160, 205 Left

DIARY AND WORK RECORD

THURSDAY
JUNE 9, 1994

30

NAME PLACE SUBJECT HRS NAME OR PROJECT DESCRIPTION TIME

QEC

TO BE DONE TODAY (ACTION LIST)

Madeleine - Business Cards

EXPENSE & REIMBURSEMENT RECORD:

Item - What?	Where? Duration?	Purpose Who Will Incur?	To Whom Paid?	Reimbursed? By Whom?	Amount
					1700.46
					1600.46
					1500.46
					1400.46
					1300.46
					1200.46
					1100.46
					1000.46
					0900.46
					0800.46
					0700.46
					0600.46
					0500.46
					0400.46
					0300.46
					0200.46
					0100.46
					0000.46

200 Ecettra
Unlabeled 37 capsules
56" 4 color 110-1200
Line (Baldwin 186 pline)
Cold helmet for
approx. pricing

JUNE 12, 1994

[illegible]

MS

NAME _____

PLACE

SUBJECT

AS

Day 163, 202 Let

DIARY

NAME OR PROJECT

SUNDAY
JUNE 12, 1994
WKK RECORD
DESCRIPTION

30
TIME

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item What?

**Where?
Duration?**

Purpose Who
What Involved?

To whom
Paid?

Reimbursed?

Amount

[illegible]

JUNE 13, 1994

APPOINTMENTS & SCHEDULED EVENTS

Wk 24 • Day 164, 201 Left

JUNE 13, 1984

30

THRS	NAME	PLACE	SUBJECT
------	------	-------	---------

DIARY AND WORK RECORD	NAME OR PROJECT	DESCRIPTION
-----------------------	-----------------	-------------

TIME:

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:
Where? To whom Reimbursed?

Item	When?	Where?	Purpose/Who	To whom	Reimbursed?	By whom?	Amount	Item	When?	Where?	Purpose/Who	To whom	Reimbursed?	By whom?	Amount
1	12-12	24	35	100.00				1	12-12	24	35	100.00			
2	12-12	24	35	100.00				2	12-12	24	35	100.00			
3	12-12	24	35	100.00				3	12-12	24	35	100.00			
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5	12-12	24	35	100.00				5	12-12	24	35	100.00			
6	12-12	24	35	100.00				6	12-12	24	35	100.00			
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62	12-12	24	35	100.00				62	12-12	24	35	100.00			
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64	12-12	24	35	100.00				64	12-12	24	35	100.00			
65	12-12	24	35	100.00				65	12-12	24	35	100.00			
66	12-12	24	35	100.00				66	12-12	24	35	100.00			
67	12-12	24	35	100.00				67	12-12	24	35	100.00			
68	12-12	24	35	100.00				68	12-12	24	35	100.00			
69	12-12	24	35	100.00				69	12-12	24	35	100.00			
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71	12-12	24	35	100.00				71	12-12	24	35	100.00			
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73	12-12	24	35	100.00				73	12-12	24	35	100.00			
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75	12-12	24	35	100.00				75	12-12	24	35	100.00			
76	12-12	24	35	100.00				76	12-12	24	35	100.00			
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110	12-12	24	35	100.00				110							

TUESDAY

JUNE 14, 1994

APPOINTMENTS & SCHEDULED EVENTS

Flag Day (USA)

WK 24 • Day 165, 200 Left

TUESDAY

JUNE 14, 1994

30

NAME

PLACE

SUBJECT

HRS

NAME OR PROJECT

DESCRIPTION

TIME

TO BE DONE TODAY (ACTION LIST)

Item	Where?	Purpose Who	To whom	Reimbursed?	Amount
What?	Duration?	What Involved?	By whom?		
					4
					1600.48
					5
					1700.48
					3
					1500.48
					2
					1400.48
					1
					1300.48
					12
					1200.48
					11
					1100.48
					10
					1000.48
					9
					0900.48
					8
					0800.48

EXPENSE & REIMBURSEMENT RECORD:

JUNE 15, 1994

APPOINTMENTS & SCHEDULED EVENTS

WK 24 • Day 166, 199 Left

DIARY AND WORK RECORD

WEDNESDAY
JUNE 15, 1994

30

155

NAME _____

PLACE

SUBJECT

MRS

NAME OR PROJECT

DESCRIPTION

2
TIA

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

What?

Where?
Durabon®

Purpose: Will
What involved

10 WITH
PAID?

By whom?

Armour

1. Name of the person		2. Address		3. Telephone		4. Date		5. Time		6. Remarks	
1	John Doe	123 Main St	Anytown, NY	555-1234	555-5678	10/1/78	10:00	11:00	12:00	13:00	14:00
2	Jane Smith	456 Elm St	Anytown, NY	555-2345	555-6789	10/2/78	10:00	11:00	12:00	13:00	14:00
3	Bob Johnson	789 Oak St	Anytown, NY	555-3456	555-7890	10/3/78	10:00	11:00	12:00	13:00	14:00
4	Sarah Brown	101 Pine St	Anytown, NY	555-4567	555-8901	10/4/78	10:00	11:00	12:00	13:00	14:00
5	Michael Davis	202 Cedar St	Anytown, NY	555-5678	555-9012	10/5/78	10:00	11:00	12:00	13:00	14:00
6	Emily White	303 Birch St	Anytown, NY	555-6789	555-0123	10/6/78	10:00	11:00	12:00	13:00	14:00
7	David Green	404 Spruce St	Anytown, NY	555-7890	555-1234	10/7/78	10:00	11:00	12:00	13:00	14:00
8	Lisa Black	505 Willow St	Anytown, NY	555-8901	555-2345	10/8/78	10:00	11:00	12:00	13:00	14:00
9	Christopher Lee	606 Ash St	Anytown, NY	555-9012	555-3456	10/9/78	10:00	11:00	12:00	13:00	14:00
10	Amanda Hall	707 Hickory St	Anytown, NY	555-0123	555-4567	10/10/78	10:00	11:00	12:00	13:00	14:00
11	Matthew King	808 Maple St	Anytown, NY	555-1234	555-5678	10/11/78	10:00	11:00	12:00	13:00	14:00
12	Stephanie Young	909 Poplar St	Anytown, NY	555-2345	555-6789	10/12/78	10:00	11:00	12:00	13:00	14:00
13	Benjamin Clark	1010 Walnut St	Anytown, NY	555-3456	555-7890	10/13/78	10:00	11:00	12:00	13:00	14:00
14	Victoria Scott	1111 Cherry St	Anytown, NY	555-4567	555-8901	10/14/78	10:00	11:00	12:00	13:00	14:00
15	Gregory Adams	1212 Elm St	Anytown, NY	555-5678	555-9012	10/15/78	10:00	11:00	12:00	13:00	14:00
16	Michelle Baker	1313 Oak St	Anytown, NY	555-6789	555-0123	10/16/78	10:00	11:00	12:00	13:00	14:00
17	Anthony Hill	1414 Pine St	Anytown, NY	555-7890	555-1234	10/17/78	10:00	11:00	12:00	13:00	14:00
18	Christina Green	1515 Cedar St	Anytown, NY	555-8901	555-2345	10/18/78	10:00	11:00	12:00	13:00	14:00
19	Timothy White	1616 Birch St	Anytown, NY	555-9012	555-3456	10/19/78	10:00	11:00	12:00	13:00	14:00
20	Rebecca Black	1717 Spruce St	Anytown, NY	555-0123	555-4567	10/20/78	10:00	11:00	12:00	13:00	14:00
21	Jonathan King	1818 Willow St	Anytown, NY	555-1234	555-5678	10/21/78	10:00	11:00	12:00	13:00	14:00
22	Kimberly Young	1919 Ash St	Anytown, NY	555-2345	555-6789	10/22/78	10:00	11:00	12:00	13:00	14:00
23	Steven Clark	2020 Hickory St	Anytown, NY	555-3456	555-7890	10/23/78	10:00	11:00	12:00	13:00	14:00
24	Angela Scott	2121 Maple St	Anytown, NY	555-4567	555-8901	10/24/78	10:00	11:00	12:00	13:00	14:00
25	Robert Adams	2222 Poplar St	Anytown, NY	555-5678	555-9012	10/25/78	10:00	11:00	12:00	13:00	14:00
26	Michelle Baker	2323 Walnut St	Anytown, NY	555-6789	555-0123	10/26/78	10:00	11:00	12:00	13:00	14:00
27	Christopher Hill	2424 Cherry St	Anytown, NY	555-7890	555-1234	10/27/78	10:00	11:00	12:00	13:00	14:00
28	Stephanie Green	2525 Elm St	Anytown, NY	555-8901	555-2345	10/28/78	10:00	11:00	12:00	13:00	14:00
29	Benjamin White	2626 Oak St									

THURSDAY
JUNE 16, 1994
APPOINTMENTS & SCHEDULED EVENTS

THURSDAY
JUNE 16, 1994
DIARY AND WORK RECORD

30

NAME PLACE SUBJECT HRS NAME OR PROJECT DESCRIPTION TIME

S.W. GARRIES

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item What?	Where? Duration?	Purpose Who What Involved?	To Whom Paid?	Reimbursed? By whom?	Amount
					1
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					30

FRIDAY
 JUNE 17, 1994
 APPOINTMENTS & SCHEDULED EVENTS

WH 24 - Day 188, 197 Left
 DIARY AND WORK RECORD
 FRIDAY
 JUNE 17, 1994
 30

TO BE DONE TODAY (ACTION LIST)

NAME	PLACE	SUBJECT	HRS	NAME OR PROJECT	DESCRIPTION
8			12		
9			12		
10			12		
11			12		
12			12		
13			12		
14			12		
15			12		
16			12		
17			12		
18			12		
19			12		
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29			12		
30			12		

EXPENSE & REIMBURSEMENT RECORD:

Item	Where?	Purpose?	Who?	To whom	Reimbursed?	Amount
What?	Where?	What?	Who?	By whom?	By whom?	Amount
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APPOINTMENTS & SCHEDULED EVENTS	
NAME	PLACE

SUBJECT



HRS

DIARY

NAME OR PROJECT

DESCRIPTION

30

TIME

S.J. Graphics

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Wharf?	Durham?	What linked?	To whom and?	Hamburg? By whom	Amount
					4000
					16000
					5000
					17000
					2000

TIME	DESCRIPTION	NAME OR PROJECT	HRS
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JUNE 20, 1994

APPOINTMENTS & SCHEDULED EVENTS

NAME _____

PLACE

SUBJECT

Wk 25 • Day 171, 194 Left

JUNE 20, 1994

30

DIARY AND WORK RECORD

NAME OR PROJECT

DESCRIPTION

TIME.

CORRUPTED: 94

INFRINGERS

SCH-Technology

United-self

CHSA - 1450

Cur. - 1RT

Langston - stay

Soft
Lumpy

○

10

1

100

10

WEDNESDAY
JUNE 22, 1994
APPOINTMENTS & SCHEDULED EVENTS

WEDNESDAY
JUNE 22, 1994
WK. 25 • Day 173, 192 Left
DIARY AND WORK RECORD

30

Myer Rattenberg
United.

Chadwick

TO BE DONE TODAY (ACTION LIST)

color
2x1 Res

HV x 7 + 1 ft x 1

2.5 metres wide

2794 mm. side from
side in

300 metres/min

100 - 400 GSM-1

craft over and

clay < 385 m

30% solids in/ls.

28 kW per unit x 7.

4 x 28 kW Post or

4 x 28 kW UV,

NAME PLACE SUBJECT HRS NAME OR PROJECT DESCRIPTION TIME

C. 94

David Saulters
Steven Chadwick

6.00 hr Chadwick
prepaid HV

30 ~~Bobst~~ Embra
Prepaid to be furnished

30. yard
like to see Orange.

30 cur
Reimburse.

4 HV/UV prepaid
3 lamps 1.7 m.
2.4 m.

5.00 Fisher & Klocke
2.45 metres wide

4, 6 and 8 stations HV
UV and torque cables

THURSDAY
JUNE 23, 1994
APPOINTMENTS & SCHEDULED EVENTS

THURSDAY		30
JUNE 23, 1994		
DIARY AND WORK RECORD		
NAME OR PROJECT	DESCRIPTION	TIME
WK. 25 • Day 174, 181 Left		

[illegible]

EXPENSE & REIMBURSEMENT RECORD:

Serial	Time	Remarks
4	1800	1040 2 Pint units Floor Sectors
5	1700	00 - Peter Chadwick T-1A call 3

FRIDAY
JUNE 24, 1994
APPOINTMENTS & SCHEDULED EVENTS

FRIDAY
JUNE 24, 1994
30
WK 25 • Day 175, 190 Left
DIARY AND WORK RECORD

NAME PLACE SUBJECT
~~XSFTITION~~
~~SELLA~~ Hall 3
~~Dartford~~ 12th
~~Rapidey~~ - 2561 - Since
~~DEPT~~ 1472
 TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item #	Where? Division?	Purpose Who With Incentive?	To whom Paid?	Reimbursed? By whom?	Amount	HRS	NAME OR PROJECT	DESCRIPTION	TIME
1					1000	1	30	Information and materials	
2					1100	2	30	Curry - Hall 2	
3					1200	2	30	Send proposal and specifications	
4					1300	1	30	SECCA - Hall	
5					1400	2	30		
6					1500	3	30	Dartford - Ready to know is with smallest expense is with	
7					1600	2	30	Corpart	
8					1700	2	30	2 inches color Delits	
9					1800	2	30	Settable 3	
10					1900	2	30	Remon	
11					2000	2	30	Prices 4V	
12					2100	2	30	Setta	

MONDAY
JUNE 27, 1984
APPOINTMENTS & SCHEDULED EVENTS

MONDAY
JUNE 27, 1984
30
WK 26 • Day 178, 187 Left
DIARY AND WORK RECORD

Ed - 826
Ds - 830
Steve - 834
DIN - 881
TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

DATE	TIME	NAME	SUBJECT	AMOUNT
6/27/84	11:00	European S.C.	< 500 mph of	11
6/27/84	11:30	European S.C.	< 700 feet per second	10
6/27/84	12:00	European S.C.	< 200 mph per second	9
6/27/84	12:30	European S.C.	< 700 CFM or < 250 CFM	8
6/27/84	13:00	European S.C.	< 3000 CFM. or < 1000 CFM	7
6/27/84	13:30			6
6/27/84	14:00			5
6/27/84	14:30			4
6/27/84	15:00			3
6/27/84	15:30			2
6/27/84	16:00			1
6/27/84	16:30			0
6/27/84	17:00			0

TUESDAY
JUNE 28, 1994

APPOINTMENTS & SCHEDULED EVENTS

NAME

PLACE

SUBJECT

HRS

NAME OR PROJECT

DESCRIPTION

1 Me.

WK 26 • Day 179, 186 Left

TUESDAY
JUNE 28, 1994

30

EUROPEAN S.C.

TO BE DONE TODAY (ACTION LIST)

EXPENSE & REIMBURSEMENT RECORD:

Item

Where

Purpose

To whom

Reimbursed

Amount

1	1000	1000	1000	1000	1000
2	1000	1000	1000	1000	1000
3	1000	1000	1000	1000	1000
4	1000	1000	1000	1000	1000
5	1000	1000	1000	1000	1000
6	1000	1000	1000	1000	1000
7	1000	1000	1000	1000	1000
8	1000	1000	1000	1000	1000
9	1000	1000	1000	1000	1000
10	1000	1000	1000	1000	1000
11	1000	1000	1000	1000	1000
12	1000	1000	1000	1000	1000
13	1000	1000	1000	1000	1000
14	1000	1000	1000	1000	1000
15	1000	1000	1000	1000	1000
16	1000	1000	1000	1000	1000
17	1000	1000	1000	1000	1000
18	1000	1000	1000	1000	1000
19	1000	1000	1000	1000	1000
20	1000	1000	1000	1000	1000
21	1000	1000	1000	1000	1000
22	1000	1000	1000	1000	1000
23	1000	1000	1000	1000	1000
24	1000	1000	1000	1000	1000
25	1000	1000	1000	1000	1000
26	1000	1000	1000	1000	1000
27	1000	1000	1000	1000	1000
28	1000	1000	1000	1000	1000
29	1000	1000	1000	1000	1000
30	1000	1000	1000	1000	1000

JUNE 29, 1994

APPOINTMENTS & SCHEDULED EVENTS

NAME _____

PLACE

SUBJECT

HRS

NAME OF PROJECT

DESCRIPTION

Time-

Wk 26 • Day 180, 185 Left

JUNE 29, 1994

30

TO BE DONE TODAY (ACTION LIST)

HRS	NAME	PLACE	SUBJECT	HRS	NAME OR PROJECT	DESCRIPTION	T.M.
8				0800-48			
9				0900-48			
10				1000-48			
11				1100-48			
12				1200-48			
1				1300-48			
2				1400-48			
3				1500-48			
4				1600-48			
5				1700-48			

THURSDAY
JUNE 30, 1994
APPOINTMENTS & SCHEDULED EVENTS

THURSDAY
JUNE 30, 1994
WK 26 • Day 181, 184 Left
DIARY AND WORK RECORD
30

TO BE DONE TODAY (ACTION LIST)

Item	Where?	Duration?	What Involved?	To whom Paid?	Reimbursed? By whom?	Amount	HRS	NAME OR PROJECT	DESCRIPTION	T ME
1						1400.00	12			
2						1300.00	12			
3						1500.00	12			
4						1600.00	12			
5						1700.00	12			

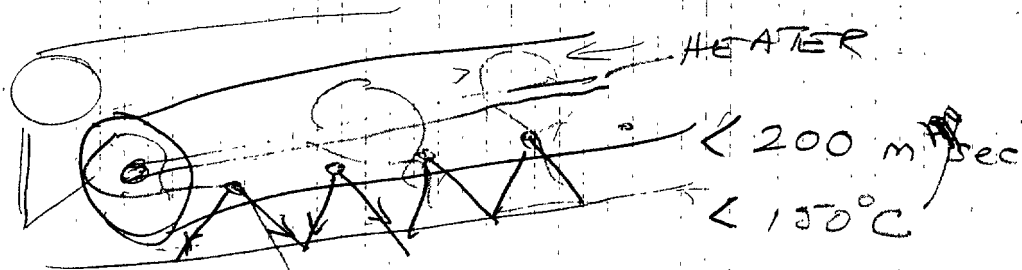
NOTES & MEMOS

NOTES & MEMOS

NOTES & MEMOS

NOTES & MEMOS

NOTES & MEMOS



$\times 17 \times 17 \times 17 \times 17$

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
AM 10 NOON PM 31	AM 11 NOON PM 30	AM 12 NOON PM 29	AM 13 NOON PM 28	AM 14 NOON PM 27	AM 15 NOON PM 26	AM 16 NOON PM 25
AM 17 NOON PM 24	AM 18 NOON PM 23	AM 19 NOON PM 22	AM 20 NOON PM 21	AM 21 NOON PM 20	AM 22 NOON PM 19	AM 23 NOON PM 18
AM 24 NOON PM 17	AM 25 NOON PM 16	AM 26 NOON PM 15	AM 27 NOON PM 14	AM 28 NOON PM 13	AM 29 NOON PM 12	AM 30 NOON PM 11
AM 31 NOON PM 10	AM 32 NOON PM 9	AM 33 NOON PM 8	AM 34 NOON PM 7	AM 35 NOON PM 6	AM 36 NOON PM 5	AM 37 NOON PM 4

J U L Y
 1 9 4 4

NOTES

NOTES

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

August

S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

October

S	M	T	W	T	F	S
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22
						23
						24
						25
						26
						27
						28
						29
						30
						31

August							October						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

OCTOBER
1994

NOTES

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 October S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				

FUTURE APPOINTMENTS

NO/DATE

DETAILS

FUTURE APPOINTMENTS

NO/DATE

DETAILS

09/15/96 09:27:01

FUTURE APPOINTMENTS

NO/DATE

DETAILS

JUNE 1994 AUTO MILEAGE RECORD

DAY	START	BUSINESS MILES	PERSONAL MILES	GAS TOLLS AND PARKING	MISC
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Total Miles

TOTALS @ _____ c per Mile \$

POCKET DAY TIMER

TOTAL
AUTO EXPENSE \$

DAY	TRAVEL	MEALS	LODGE	ENTERT	OTHER	DAILY TOTALS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL						

DAY	TRAVEL	MEALS	LODGE	ENTERTAINMENT	OTHER	TOTAL	DATE
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL							

Approved by _____

Employee _____

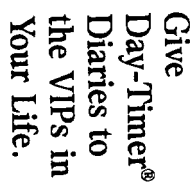
Firm _____

AUTO EXPENSE \$ _____

from reverse side

TOTAL EXPENSES \$ _____

FOR MONTH



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Everyone will thank you warmly And you'll be starting
some Very Important People on the road to success
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Choose one of these Pocket Day-Timer page formats:

2-PAGE-PER-DAY ORIGINAL: For busy, detail-oriented people who work regular business hours or bill for time. Hours run from 8 AM to 6 PM. Start with any month.

2-PAGE-PER-DAY INDEXED: Perfect for people with many appointments. Step-indexed date finder. Hours from 7 AM to 10 PM. Start with any month.

2-PAGE-PER-DAY RECORDTM: Greater capacity for appointments, with hours from 7 AM to 10 PM. Fully itemized expense record. Start with any month.

1-PAGE-PER-DAY: A condensed version for those with less need for detail. Hours: 8 AM to 9 PM. Start Jan., Mar. May, July, Sept. or Nov.

2-PAGE-PER-WEEK: Displays a full week's activities.
Hours: 8 AM to 6 PM. Start January or July

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215-266-9000

June 1994

S	M	T	W	T	F	S
				1	2	3
				4	5	6
	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May 1994

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

July 1994

S	M	T	W	T	F	S
						1
						2
	3	4	5	6	7	8
	9	10	11	12	13	14
	15	16	17	18	19	20
	21	22	23	24	25	26
	27	28	29	30		

POCKET DAY-TIMER
STYLE C21

GLASER, GRIGGS & SCHWARTZ
Attorneys at Law

~~CONFIDENTIAL~~

Three Lincoln Centre
5430 LBJ Freeway, Suite 1540
Dallas, Texas 75240
(214) 770-2400

STATEMENT

Printing Research, Inc.
Statement No. 27120-00000-155 DTG

Total services for this matter \$ 125.00

B5841 INFRARED HOT AIR DRYER AND EXTRACTOR

07/07/94 Prosecution of U.S. Patent Application Serial No. 08/116,711. Office conference at Printing Research with Mr. Ron Rendleman. Review engineering drawings. Review prototype test report. Consultation regarding actual reduction to practice.

Total services for this matter \$ 450.00

B5716KR COATING APPARATUS FOR SHEET-FED, OFFSET
ROTARY PRINTING PRESSES

07/14/94 Prosecution of Korean Patent Application No. 1993-7412. Attending to correspondence from Korean associate. Review publication document for Korean patent application. Letter with publication document to Mr. Ed Schaffler with advice regarding publication of patent application in Korea.

Total services for this matter \$ 75.00

B5900 OFFSET LITHOGRAPHY UTILIZING AQUEOUS INK

PRI 01672

GLASER, GRIGGS & SCHWARTZ
Attorneys at Law

~~CONFIDENTIAL~~

Three Lincoln Centre
5430 LBJ Freeway, Suite 1540
Dallas, Texas 75240
(214) 770-2400

STATEMENT

Printing Research, Inc.
Statement No. 27120-00000-155 DTG

07/07/94 Office conference with Mr. Howard DeMoore and Mr. John Bird. Comprehensive review of specification, claims and drawings. Office conference with professional illustrator regarding revision to patent drawings.

07/08/94 Revise specification, claims and drawings. Office conference at Printing Research with Mr. Howard DeMoore, Mr. John Bird and Mr. Steve Garner.

07/11/94 Revise specification. Prepare additional drawing figures. Office conference at Printing Research with Mr. Howard DeMoore, Mr. John Bird and Mr. Steve Garner. Comprehensive review of patent specification, claims and drawings.

07/12/94 Continuation of work-in-progress. Prepare patent claims for rotary offset press and web press embodiments.

07/13/94 Revise specification and claims. Office conference at Printing Research with Mr. Howard DeMoore and Mr. John Bird.

07/22/94 Prepare additional specification for newspaper web press and printing forms web press embodiments. Office conference at Printing Research with Mr. Howard DeMoore, Mr. John Bird and Mr. James Garner. Comprehensive review of specification, claims and drawings.

07/25/94 Revise specification, claims and drawings. Disclosure review conference at Printing Research with Mr. Howard DeMoore and Mr. Steve Garner.

07/27/94 Continuation of work-in-progress. Prepare additional specification for alternative embodiments. Revise specification and drawings. Office conference with professional illustrator regarding preparation of FIGURE 8 and FIGURE 9 embodiments. Office conference at Printing Research with Mr. Howard DeMoore.

PRI 01673